Power Quality Solutions up to 40 kVA

UPS production of the second s



Power Quality

Eaton Power Quality Division, a part of the Electrical Sector, has more than 45 years of experience in designing and producing innovative power quality products. The result is an expansive portfolio of products, which help to protect our customer's business processes, critical applications and systems from all power problems and failures.



Eaton product and service range

- AC UPS from 350 VA up to 4000 kVA
- DC systems of all sizes
- A broad portfolio of rack-based power distribution units (ePDU®)
- Software and connectivity products for power management and remote control
- Technical support and maintenance
- Complete power quality solutions

Eaton products are manufactured in Finland, USA, China, Taiwan, India, Brazil, UK and New Zealand.

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Eaton Ellipse MAX	•
Eaton Evolution	
Eaton Evolution S	•
Eaton EX	
Eaton MX	•
Eaton EX RT	
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Eaton ePDU	•
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Eaton 3105 UPS

1 4 IEC outlets with battery backup and surge protection

- surge protection
- 3 USB port
- 4 Dataline protection

TECHNICAL SPECIFICATIONS

Rating	350VA Schuko	500VA Schuko	350VA	500VA
Part number	103004343-5591	103004344-5591	103004249-5591	103004250-5591
Capacity (VA/Watts)	350/210	500/300	350/210	500/300
Dimensions W*D*H (mm)	280*180*125 mm	280*180*125 mm	280*180*115 mm	280*180*115 mm
Weight (kg)	6 kg	6 kg	6 kg	6 kg
Input connection	IEC320/ 10A	IEC320/10A	IEC320/10A	IEC320/10A
Output connection	3*Schuko + 3*Schuko surge only	3*Schuko + 3*Schuko surge only	4*IEC320 10A + 4 IEC320 10A surge only	4*IEC320 10A + 4 IEC320 10A surge only
Typical runtime	4 min full load 10 min half load	3 min full load 8 min half load	4 min full load 10 min half load	3 min full load 8 min half load
Bundled with	Schuko Power cable Sofware& USB cable RJ 11 cable	Schuko Power cable Sofware& USB cable RJ 11 cable	(2) IEC-IEC cables Sofware& USB cable RJ 11 cable	(2) IEC-IEC cables Sofware& USB cable RJ 11 cable
Operational				
Nominal Input voltage (VAC)	230 VAC			
Input voltage range	184-265 VAC			
Operating frequency	50/60 Hz auto sensing			
Nominal Output voltage	230 VAC			
Output voltage regulation	Same as input			
Overload capacity	120%+/- 10%			
Efficiency	95%, normal mode			
User interface				
LED	UPS On, UPS on Battery, (Overload, Alarm		
Standard communication ports	USB			
Environmental				
Operating temperature	0ºC - +40 ºC			
Altitude	< 3000 m			
Audible noise at 1 meter	< 40 dB			
Certification				
Markings	CE			

3105 runtimes

Load	3105 350VA/210W	3105 500VA/300W	
50W	30 min	40 min	
100W	15 min	17 min	
150W	8 min	10 min	
200W	4 min	6 min	
250W		4 min	
300W		3 min	

Eaton 3105 UPS 350 – 500 VA



Passive standby (off-line) UPS

Protection against main's power problems

eral complete outages a year.

Two models - all included

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In a perfect world, your incoming utility power would be smooth, steady, and completely reliable. In the real world, however, public power is plagued with sags, surges, and outages. A typical power customer experiences disturbances in utility power daily, and sev-

• The 3105 UPS helps to protect your home appliances in case of everyday events such as lightning strikes, storms, over-demand on the utility grid, accidents, and natural disas-

In the event of total blackout, the unit runs on battery so

The shutdown software installation makes it possible to

automatically save your work and shut down your application without doing anything. Once power resumes, you can start exactly where you left off, without losing any data.

The 3105 UPS comes in two models with either Schuko outlets or with IEC outlets and two power ratings 350/500 VA. The bundled software for automatic data saving and shut-

Both IEC and Schuko models are bundled with a USB cable.

With the Schuko model you get the power cable bundled

while with the IEC model you get two IEC-IEC load cables.

ters knocking out power without warning.

that you have time to save your work.

down (compatible with Windows)

as well as RJ 11 cable.



Power protection for:

- · Computers, peripherals and multimedia
- Broadband modems (Internet and TV)
- IP telephony
- · Household goods, etc.

surge protection + 4 IEC outlets with

2 3 Shucko outlets with battery backup and surge protection + 3 Shucko outlets with

5 ON/OFF button + LED user interface





Eaton 5110 UPS 500, 700 and 1000 VA



Power protection for:

- Workstations
- Office computers
- Office equipment

Line interactive UPS

Highest power performance

- The 5110 UPS offers an appropriate level of power protec-• tion for office computers and workstations.
- The UPS does not only offer backup when power is totally ٠ lost, it also regulates the voltage and thereby offers protec-tion against five of nine typical power problems: power failures, sags, surges, undervoltage and overvoltage.
- All 5110 models have four battery backup protected outlets • as well as four "surge-protection" only outlets for the load not needing battery backup.

Unmatched reliability

- Buck and Boost operation corrects a wide range of input • voltage variations through continuous regulation, without the use of batteries.
- Extend UPS service life with user-replaceable batteries. •
- Protect networked equipment from "back door" power surges coming through LAN or telephone lines. •

Outstanding versatility

- ٠ The 5110 occupies a small footprint and can be placed on its side under the monitor.
- The UPS is equipped with a USB port and if you choose to install the bundled shutdown software it automatically man-٠ age your operating system graceful shutdown in case of extended power outages.
- All models come bundled with the shutdown software, USB cable and two IEC-IEC load cables as well as a RJ-11 cable • your Tele/DSL line from surges.

Eaton 5110 UPS



- 1 LED user interface
- 3 USB port 4 Dataline protection

TECHNICAL SPECIFICATIONS

Rating	500 VA	700 VA	1000 VA
Part number	103004261-5591	103004262-5591	103004263-5591
Capacity (VA/Watts)	500/300	700/420	1000/600
Dimensions W*D*H (mm)	87*260*270 mm	87*260*270 mm	87*384*270 mm
Weight (kg)	6 kg	8 kg	12 kg
Input connection	IEC320/ 10A	IEC320/10A	IEC320/10A
Output connection	4*IEC320 10A + 4 IEC320 10A surge only	4*IEC320 10A + 4 IEC320 10A surge only	4*IEC320 10A + 4 IEC320 10A surge only
Typical runtime	3 min full load 8 min half load	3 min full load 8 min half load	5 min full load 15 min half load
Bundled with	(2) IEC-IEC cables Sofware & USB cable RJ 11 cable	(2) IEC-IEC cables Sofware & USB cable RJ 11 cable	(2) IEC-IEC cables Sofware & USB cable RJ 11 cable
Operational			
Nominal Input voltage (VAC)	230 VAC		
Input voltage range	178-275 VAC		
Operating frequency	50/60 Hz auto sensing		
Nominal Output voltage	230 VAC		
Output voltage regulation	230 V +/- 10%		
Overload capacity	130%+/- 10% immediate shutdo 105% shutdown after 5 min	wn	
Efficiency	95%, normal mode		
User interface			
LED	UPS On, UPS on Battery, Overlo	oad,	
Standard communication ports	USB		
Environmental			
Operating temperature	0ºC - +40 ºC		
Altitude	< 3000 m		
Audible noise at 1 meter	< 40 dB		
Certification			
Markings	CE		

BACKUP TIME TABLE

Load	500 VA	700 VA	1000 VA
50W	40 min	50 min	80 min
100W	17 min	20 min	60 min
150W	10 min	14 min	40 min
200W	6 min	9 min	25 min
250W	4 min	7,5 min	20 min
300W	3 min	6 min	17 min
350W		4 min	14 min
400W		3 min	12 min
450W			10 min
500W			8 min
550W			6 min
600W			5 min



2 Panel for replacing batteries

5 4xIEC 10A + 4xIEC 10A surge only 6 Circuit breaker reset button





Eaton 5115 UPS



1 LED user interface 2 Panel for replacing batteries 3 1 USB port + 1 serial port 4 Dataline (network) protection 5 4 to 6 IEC 10A sockets

TECHNICAL SPECIFICATION

	500 VA	750 VA	1000 VA	1400 VA
Part number	05146549-5591	05146555-5591	05146561-5591	05146567-5591
Capacity (VA/watts)	500/320	750/500	1000/670	1400/950
Dimensions WxDxH (mm)	150x268x185	150x333x185	150x333x185	150x388x185
Weight (kg)	8	12	13	17
Input connection	IEC320/10A	IEC320/10A	IEC320/10A	IEC320/10A
Output connection	4xIEC320/10A	4xIEC320/10A	6xIEC320/10A	6xIEC320/10A
Typical runtime (full load)	5 min	6 min	5 min	5 min
(half load)	15 min	17 min	15 min	15 min
Operational				
Nominal input voltage (Vac)	220/230/240 Vac			
Input voltage range	184-276 VAC(± 20% of	nominal)		
Operating frequency	50/60 Hz auto sensing			
Input power factor	Same as load			
Nominal output voltage	220/230/240 Vac			
Output voltage regulation	-10%/+6% of selected	nominal voltage		
Overload capacity	110% 3 min; 150% 10 d	cycles		
Efficiency	95%			
User interface				
LED	Four LEDs; UPS on, U	PS on battery, overload, alarm		
Standard communication ports	RS232 & USB			
Optional	External SNMP adapt	er		
Environmental				
Operating temperature	0°C - +40°C			
Storage temperature	-15°C -+55°C			
Altitude	<3000 m			
Audible noise at 1 metre	<40 dB			
Certification				
Markings	CE			
Safety	IEC 62040-1-1, UL 1778	}		
	IEC 62040-2			

Load VA / W	500 VA	750 VA	1000 VA	1400 VA	
200 VA / 128 W	17	38	41	58	
300 VA / 192 W	11	27	28	41	
500 VA / 320 W	5	14	15	28	
600 VA / 400 W		9	10	19	
750 VA / 500 W		6	8	14	
900 VA / 600 W			6	10	
1000 VA / 670 W			5	8	
1200 VA / 800 W				6	
1400 VA / 950 W				5	

Eaton 5115 UPS 500 – 1400 VA

Line interactive UPS

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Highest power performance

power outages.

loads protected

Outstanding versatility

cation requirements

prolonged by up to 50%

down connected equipment..

software as easy as possible.

network in predefined order.

Unmatched reliability

voltage and overvoltage.

The 5115 UPS protects critical equipment from five of nine

The UPS guarantees pure sine wave output during battery operations. The connected load continues to receive high

quality electrical wave and operates smoothly event during

Buck and Boost operation corrects a wide range of input

ABM technology uses an innovative three-stage charging

technique, that only recharges the battery when necessary, so the battery experiences less corrosion and service life is

Batteries can be hot-swapped without ever having to shut

Incorporating both serial and USB communications ports,

the Eaton 5115 is well-equipped to meet today's communi-

The 5115 comes complete with the Eaton Software Suite

CD, where wizard guides you through the installation proc-

ess and helps you choose components that are compatible

with your systems to make the installation of the shutdown

LanSafe® shutdown software monitors the UPS and in the event of an extended power failure shuts down the entire

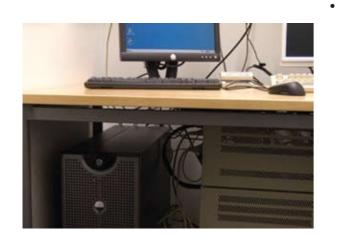
voltage variations through continuous regulation, without the use of batteries, and ensures consistent input voltage to the

typical power problems: power failures, sags, surges, under-

F.T.N ---... ..

Power protection for:

- Small servers
- Network devices
- Storage systems



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500 – 1500 VA

Eaton 5115 RM UPS





TECHNICAL SPECIFICATIONS

Rating	500 VA	750 VA	1000 VA	1500 VA
Part number	103003267-6591	103003270-6591	103003273-6591	103003276-6591
Capacity (VA/watts)	500/320	750/500	1000/670	1500/1000
Dimensions WxDxH (mm)	440x580x45	440x580x45	440x580x45	440x580x45
Weight (kg)	9	15	15	19
Input connection	IEC320/10A	IEC320/10A	IEC320/10A	IEC320/10A
Output connection	4xIEC320/10A	4xIEC320/10A	4xIEC320/10A	4xIEC320/10A
Typical runtime (full load)	5 min	6 min	5 min	5 min
(half load)	15 min	17 min	15 min	15 min
Operational				
Nominal input voltage (Vac)	220/230/240 Vac			
Input voltage range	(± 20% of nominal)			
Operating frequency	50/60 Hz auto sensing			
Nominal output voltage	220/230/240 Vac			
Output voltage regulation	-10%/+6% of selected	nominal voltage		
Overload capacity	110% 3 min; 150% 10 c	ycles		
Efficiency	95%			
User interface				
LED	Four LEDs; UPS on, UF	PS on battery, overload, alarm		
Standard communication ports	RS232/USB and X-slot			
Optional	Internal SNMP adapte	r		
Environmental				
Operating temperature	0°C - +40°C			
Storage temperature	-15°C -+55°C			
Altitude	<3000 m			
Audible noise at 1 metre	<40 dB			
Certification				
Markings	CE			
Safety	IEC 62040-1-1 & UL 177	78		
EMC	IEC 62040-2, EN 6100-3	3-2		

Load VA / W	500 VA	750 VA	1000 VA	1500 VA
200 VA / 128 W	17	38	41	76
300 VA / 192 W	11	27	28	58
500 VA / 320 W	5	14	15	28
600 VA / 400 W		9	10	19
750 VA / 500 W		6	8	14
900 VA / 600 W			6	10
1000 VA / 670 W			5	8
1200 VA / 800 W				6
1500 VA / 1000 W				5

F.T-N --

Eaton 5115 RM UPS



5115 RM front panel

Power protection for:

- Small rack servers
- Rack network devices
- Small storage equipment



Line interactive UPS

Highest power performance

- The 5115 RM UPS protects critical equipment from five of nine typical power problems: power failures, sags, surges, undervoltage and overvoltage.
- The UPS guarantees pure sine wave output during battery • operations. The connected load continues to receive high quality electrical wave and operates smoothly event during power outages.

Unmatched reliability

- Eaton ABM technology uses an innovative three-stage ٠ charging technique, that only recharges the battery when necessary, so the battery experiences less corrosion and service life is prolonged by up to 50%.
- Batteries can be hot-swapped without ever having to shut • down connected equipment.
- The load segment control makes it possible to optimize the ٠ runtime of critical devices by shutting down non essential devices first and saving battery capacity for the most critical ones.

Outstanding versatility

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- The 5115 design provides high power density, occupying only 1U (45 mm), which conserves valuable space in the rack for other equipment.
- USB and RS232 communication is offered as standard plus • an extra slot for optional communication card (including SNMP/Web card).
- The UPS comes complete with the Eaton Software Suite CD, where wizard guides you through the installation process and helps you choose components that are compatible with your systems to make the installation of the shutdown software as easy as possible.
- LanSafe shutdown software monitors the UPS and in the event of an extended power failure shuts down the entire network in predefined order.

- 1 Led user interface
- 2 Panel for replacing batteries
- 3 1 USB port + 1 serial port
- 4 Data line protection
- 5 Load segments
- 6 Communication card slot



Eaton 5125 UPS

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- 1 Led user interface 2 Panel for replacing batteries 3 1 serial port
- 6 6 EBM connector

Rating	1000 VA	1500 VA	2200 VA
Part number	05146630-5591	05146633-5591	05146637-5591
Capacity (VA/watts)	1000/700	1500/1050	2200/1600
Dimensions WxDxH (mm)	162x401x250	162x467x250	205x493x250
Weight (kg)	16	23	31
Input connection	IEC320/10A	IEC320/10A	IEC320/16A
Output connection	6xIEC320/10A	6xIEC320/10A	9xIEC320/10A
Typical runtime (full load)	5 min	6 min	6 min
(half load)	15 min	20 min	20 min
Operational			
Nominal input voltage (Vac)	220/230/240 Vac		
Input voltage range	166-276 VAC (+20/-30% of nominal)		
Operating frequency	50/60 Hz auto sensing		
Input power factor	Same as load		
Nominal output voltage	220/230/240 Vac		
Output voltage regulation	-10%/+6% of selected nominal voltag	е	
Overload capacity	110% 3 min; 150% 10 cycles		
Efficiency	95%		
User interface			
LED	Informative LED display		
Standard communication ports	RS232		
Optional	SNMP/WEB card, USB card		
Environmental			
Operating temperature	0°C - +40°C		
Storage temperature	-15°C -+55°C		
Altitude	<3000 m		
Audible noise at 1 metre	<45 dB normal mode		
Certification	<50 dB battery mode		
Markings	CE/GS/UL		
Safety	IEC 62040-1-1 & UL 1778		
EMC	IEC 62040-2		
LIVIG	16 02040-2		

5125 runtime	internal batteries (internal batteries + 1 EBM)						
Load VA / W	1000 VA	1500 VA	2200 VA				
250/175	30 (180)	60 (240)	100 (360)				
500/350	15 (100)	35 (150)	60 (180)				
750/525	10 (60)	20 (100)	45 (115)				
1000/700	5 (48)	13 (60)	28 (75)				
1250/875		8 (40)	19 (55)				
1500/1050		6 (30)	15 (40)				
1750/1225			12 (35)				
2000/1400			10 (30)				
2200/1600			6 (28)				

Eaton 5125 UPS 1000, 1500, 2200 VA



Power protection for:

- Small network servers
- Small storage equipment
- Network devices



Line interactive UPS

Highest power performance

The 5125 UPS protects IT network from five of nine typical • power problems: power failures, sags, surges, undervoltage and overvoltage.

Unmatched reliability

- Buck and Boost operation corrects a wide range of input ٠ voltage variations through continuous regulation, without the use of batteries, and ensures consistent input voltage to the loads protected.
- The UPS enables prolonged runtime of essential equip-• ment during power outages by allowing for orderly, remote shutdown of non-critical systems and processes thanks to a capability to control load segments.
- The 5125 offers extended runtime capability courtesy of the • external battery cabinets.
- With hot-swappable batteries the battery module can we • replaced without disrupting server room operations or power to protected equipment.
- ABM technology uses an innovative three-stage charging technique, that only recharges the battery when necessary, so the battery experiences less corrosion and service life is prolonged by up to 50%.

Outstanding versatility

- The 5125 offers a slot for optional communication card • (including SNMP/Web card, relay contact card) allowing remote monitoring in a variety of networking environments.
- The 5125 comes complete with the Eaton Software Suite ٠ CD, where wizard guides you through the installation process and helps you choose components that are compatible with your systems to make the installation of the shutdown software as easy as possible.
- LanSafe shutdown software monitors the UPS and in the event of an extended power failure shuts down the entire network in predefined order.

4 Dataline (network) protection 5 6 to 9 IEC 10A sockets





Eaton 5130 UPS 1250, 1750, 2500, 3000 VA





2U rackmount installation

Power protection for:

- IT and networking environments
- · Servers, networking gear
- · Telecommunications, VoIP, security systems



Line interactive UPS

Highest power performance

- The 5130 protects connected equipment from five of the • most common power anomalies: failures, surges, sags, under-voltage and overvoltage.
- 0.9 power factor: more real power to your protected load. • By delivering more real output power, the 5130 powers more servers than another UPS of equivalent VA rating with a lower power factor. 5130 is compatible with all modern IT equipment.

Unmatched reliability

- Load segment control enables prioritized shutdown of nonessential equipment during outages to maximize battery runtime for critical devices. Load segment control can also be used to remotely re-boot locked-up network equipment or manage scheduled shutdowns and sequential startups.
- You can extend the runtime to several hours by adding up to four external battery modules. Each external battery module occupies only 2U for most models (3U for reduced depth, 3000 VA models).
- With hot-swappable batteries, you can replace a battery • module without disrupting server room operations or power to protected equipment. With an optional, hot-swap maintenance bypass module, you can even replace the entire UPS.

Outstanding versatility

- The UPS offers the choice of rackmount or tower installa-٠ tion. Pedestal and rail kits are included in all models at no extra charge.
- The 2U model is optimized for rack mounting but is easily ٠ deployed as a tower. The 3U unit is optimized for tower deployment or short-depth racks, which makes it especially suitable for telecom equipment racks
- The 5130 offers Serial and USB communication plus an extra slot for optional communication card (including SNMP/ Web card, relay contact card) allowing remote monitoring in a variety of networking environments.
- The UPS comes complete with the Eaton Software Suite CD, including SNMP compatible power management software.

Eaton 5130 UPS



- 2 Load segments
- connector
- 4 Communication card slot
- 5 LED user interface
- 6 EBM connector

TECHNICAL SPECIFICATIONS

General	
LEDs	13 status-indicating LEDs
Topology	Line interactive
Diagnostics	Full system self-test at power up
Transfer time	1–4 ms typical
R00/RP0	Rear deck emergency stop connector (for remote on/off and power off)
Rail kit/tower stand	Included with all units
Electrical Input	
Nominal voltage	230 Vac
Voltage range*	160–294 V
Frequency	50/60 Hz
Frequency range	47–70 Hz for 50 Hz operation 56.5–70 Hz for 60 Hz operation
Dedicated circuit breaker rating	700–2000 VA: 10A 3000 VA: 16A
Electrical Output	
Power factor	0.9
On utility voltage regulation	184–265 Vac
On battery voltage regulation	-10%, +6% of nominal
Efficiency	Normal or line mode: >94%
Over current protection	Electronic current limit
Load crest factor	3:1
Load segments	Two groups of two individually controlled output receptacles

Part number	Rating (VA/Watts)	Input connection	Output receptacles	Dimensions H x W x D, mm	Weight, kg
103006590-6591	1250/1150	IEC C14-10A	(8) IEC-C13-10A	86 x 441 x 509	24,3
103006591-6591	1750/1600	IEC C14-10A	(8) IEC-C13-10A	86 x 441 x 509	26,6
103006592-6591	2500/2250	IEC C20-16A	(1) IEC-C19-16A (8) IEC-C13-10A	86 x 441 x 634	33,8
103006593-6591	3000/2700	IEC C20-16A	(1) IEC-C19-16A (8) IEC-C13-10A	86 x 441 x 634	33,8
103006594-6591	3000/2700	IEC C20-16A	(1) IEC-C19-16A (8) IEC-C13-10A	131 x 441 x 484	34,3
es					
103006587-6591	NA	NA	NA	86 x 441 x 509	30,4
103006589-6591	NA	NA	NA	86 x 441 x 634	41,7
103006588-6591	NA	NA	NA	131 x 441 x 484	41,7
	103006590-6591 103006591-6591 103006592-6591 103006593-6591 103006594-6591 203006594-6591 203006587-6591 103006589-6591	Part number (VA/Watts) 103006590-6591 1250/1150 103006591-6591 1750/1600 103006592-6591 2500/2250 103006593-6591 3000/2700 103006594-6591 3000/2700 103006594-6591 NA 103006587-6591 NA	Part number (VA/Watts) connection 103006590-6591 1250/1150 IEC C14-10A 103006591-6591 1750/1600 IEC C14-10A 103006592-6591 2500/2250 IEC C20-16A 103006593-6591 3000/2700 IEC C20-16A 103006594-6591 3000/2700 IEC C20-16A 103006594-6591 3000/2700 IEC C20-16A 103006584-6591 NA NA 103006587-6591 NA NA	Part number (VA/Watts) connection Output receptacles 103006590-6591 1250/1150 IEC C14-10A (8) IEC-C13-10A 103006591-6591 1750/1600 IEC C14-10A (8) IEC-C13-10A 103006592-6591 2500/2250 IEC C20-16A (1) IEC-C19-16A 103006593-6591 3000/2700 IEC C20-16A (1) IEC-C19-16A 103006594-6591 3000/2700 IEC C20-16A (1) IEC-C19-16A 103006594-6591 3000/2700 IEC C20-16A (1) IEC-C19-16A 103006594-6591 3000/2700 IEC C20-16A (1) IEC-C19-16A 103006587-6591 NA NA NA 103006587-6591 NA NA NA	Part number (VA/Watts) connection Output receptacles Dimensions H x W x D, mm 103006590-6591 1250/1150 IEC C14-10A (8) IEC-C13-10A 86 x 441 x 509 103006591-6591 1750/1600 IEC C14-10A (8) IEC-C13-10A 86 x 441 x 509 103006592-6591 2500/2250 IEC C20-16A (1) IEC-C19-16A (8) IEC-C13-10A 86 x 441 x 634 103006593-6591 3000/2700 IEC C20-16A (1) IEC-C19-16A (8) IEC-C13-10A 86 x 441 x 634 103006593-6591 3000/2700 IEC C20-16A (1) IEC-C19-16A (8) IEC-C13-10A 86 x 441 x 634 103006594-6591 3000/2700 IEC C20-16A (1) IEC-C19-16A (8) IEC-C13-10A 131 x 441 x 484 es 103006587-6591 NA NA NA 86 x 441 x 509 103006589-6591 NA NA NA 86 x 441 x 509

BATTERY	Internal	batteries	+1	EBM	+2	EBMs	+3	BMs	+4 1	BMs
RUNTIMES*	75% Load	50% Load	75% Load	50% Load	75% Load	50% Load	75% Load	50% Load	75% Load	50% Load
PW5130i1250-XL2U	13	20	52	105	90	175	125	225	175	300
PW5130i1750-XL2U	9	14	33	60	55	100	80	145	105	180
PW5130i2500-XL2U	10	17	50	85	80	130	130	210	180	290
PW5130i3000-XL2U/3U	9	15	38	60	70	100	90	150	120	210

1 Panel for replacing batteries 3 USB & Serial ports + RPO/ROO



Battery	
Battery replacement	Hot-swappable internal batteries
Start-on-battery	Allows start of UPS without utility input
Communications	
Serial port	RS-232 (RJ45) port
USB port	As standard (HID), for communicating with Windows XP/Vista
Optional communication cards	ConnectUPS-MS Network Management Card, Relay/Serial Management Card -MS
Cables	RS 232 and USB communications cables included
Power management software	Eaton Software Suite CD-ROM (bundled with UPS)
Environmental	
Safety markings	CE; C-Tick; TUVus
Safety conformance	IEC/EN 62040-1-1, UL 1778
EMC compliance	IEC/EN 62040-2 EN 50091-2 class B
Operating temperature	0°C to +40°C
Storage temperature	-15°C to +50°C
Relative humidity	20–95% non-condensing
Audible noise	Max 45 dBA
Heat dissipation table (b	attery fully charged)



5000 - 6000 VA

Eaton 9120 UPS

Eaton 9120 UPS

- 1 Multilingual graphical LCD display
- 2 Panel for replacing batteries
- 3 1 USB port + 1 serial port + EPO connector
- 4 EBM battery unit connector
- 5 Communication card slot

Advanced power protection for:

- Small networks
- · Critical servers
- Other critical IT applications
- · Process automation and control equipment
- Telecom applications
- · Security equipment



Double conversion UPS

Highest power performance

- Double conversion topology provides the highest level of protection available by isolating the output power from all input anomalies.
- The exceptional electrical performance of the 9120 ensures that the UPS can be used in almost any application.

Unmatched reliability

- Due to a wide input voltage window the 9120 is capable of working with mains power in most conditions without discharging batteries, thus saving battery capacity for when it is really needed.
- ABM technology uses an innovative three-stage charging technique, that only recharges the battery when necessary, so the battery experiences less corrosion and service life is prolonged by up to 50%.
- Internal batteries can be hot-swapped without ever having to shut down connected equipment.
- The 9120 can be equipped with External Battery Cabinets to extend the runtimes to hours.
- The ups can be installed with an External Bypass option which enables "swap" or service without powering down the critical load.
- The UPSs can be installed using a separate input cable for the internal bypass. This feature not only provides redundancy for the input, but also enables a system with UPSs to increase power availability. The critical load is powered by the first UPS and in the case of a failure the load is transferred to the bypass source which is supplied by another UPS. This configuration enables redundant operation with standard UPS units.

Outstanding versatility

- The UPS features an informative user interface with LCD, four LED and audible alarms. This enables easy configuration of your UPS by changing UPS settings using the LCD panel.
- The 9120 comes complete with the Eaton Software Suite CD including SNMP-compatible power management software providing control and visibility over all your UPS systems.
- LanSafe included on the software package monitors all network devices and provides an orderly shutdown in the event of extended power outage.
- The 9120 offers Serial and USB communication plus an extra slot for optional communication card (including SNMP/ Web card, relay contact card) allowing remote monitoring in a variety of networking environments.
- The 9120 is also equipped with an EPO port enabling shutdown of the connected equipment from a remote location in an emergency.

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFIC	ATIONS	
Rating		5000 VA
Part number		1026103
Capacity (VA/watts)		5000/3500
Dimensions WxDxH (mm)		280x580x5
Weight (kg)		91
Input connection		Hardwired
Output connection		Hadwired
Typical runtime (full load) (half load)		10 min 22 min
Operational		
Nominal input voltage (Vac)	220/230/240 Vac	
Input voltage range	120/140/184-276 Vac	
Operating frequency	50/60 Hz auto sensing (± 3 Hz, adj	ustable)
Input power factor	>0.99	
Nominal output voltage	208/220/230/240 Vac	
Output voltage regulation	± 2% online; ± 3% on battery mod	е
Overload capacity	Up to 125 % for minute, 125-150%	for 10 sec
Efficiency	>90% (Online mode) >95% (High efficiency mode)	
User interface		
LCD display	LCD display showing both UPS m	eters and UPS
LED	Four LEDs; UPS on, UPS on batter	ry, UPS on byp
Standard communication por	ts RS232 and USB as standard on a	l models
Optional	Connectivity slot for SNMP/Web	card and relay
Environmental		
Operating temperature	0°C - +40°C	
Storage temperature	-15°C -+40°C	
Altitude	<3000 m	
Audible noise at 1 metre	<55 dB	
Certification		
Markings	CE/GS	
Safety	IEC 62040-1-1	
EMC	IEC 62040-2	

External battery cabinets

9120	Backup time*
BAT 5000/6000	Approx 45/30 min



	6000 VA
	1026104
	6000/4200
70	280x580x570
	91
	Hardwired
	Hardwired
	8 min 20 min
settings	
ass, alarm	
r card	

Dimensions	Weight
280x580x570 mm	125 kg



Eaton 9130 UPS 700 – 3000 VA





Multilingual LCD

Advanced power protection for:

- IT and networking environments
- · Servers, networking gear
- Telecommunications, VoIP, security systems
- Medical systems
- · Diagnostics and medical screening
- Patient record archives
- · Manufacturing systems
- Chip fabrication
- · Pharmaceutical production
- · Chemical processing



Double conversion UPS

Highest power performance

- Double conversion topology. The 9130 constantly monitors power conditions and regulates voltage and frequency. Even when presented with the most severe power problems, UPS's output remains within 3% of nominal voltage.
- More real power. High 0,9 output power factor enables the 9130 to provide its full power capability to modern IT equipment.
- Highest efficiency to reduce utility and cooling spending. When power conditions are within acceptable limits, the 9130 can operate in a high-efficiency mode providing 95 percent efficiency.

Unmatched reliability

- The internal bypass allows service continuity in case of internal fault, a maintenance bypass is also available (as option) for easy replacement of the UPS without powering down critical systems.
- Stronger, longer battery life. ABM technology uses an inno-٠ vative three-stage charging technique, that only recharges the battery when necessary, so the battery experiences less corrosion and service life is prolonged by up to 50%.
- ٠ Batteries can be hot-swapped without ever having to shut down connected equipment.
- Possibility to add more runtime at any time with up to four ٠ external hot-swappable battery modules to run systems for hours if necessary.
- Enables prolonged runtime of essential equipment during • power outages by allowing for orderly, remote shutdown of non-critical systems and processes thanks to a capability to control load segments.

Outstanding versatility

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- One platform, two factors, dozens of choices. Up to 3000 VA of UPS power is packed into only 2U of rack space. The tower option is about the size of a modern, compact PC.
- Enhanced configuration capability through easily navigated multilingual graphical display.
- Remote monitoring. The 9130 comes complete with the . Eaton Software Suite CD including SNMP-compatible power management software providing control and visibility over all your UPS systems.
 - Connectivity options are available for almost any network environment.

Eaton 9130 UPS





connector 6 Load segments 7 Communication card slot

display

TECHNICAL SPECIFICATIONS

General					Communic	ations				
	Graphical LCD	with blue ba	acklight and te	xt in	Ports		RS-232 an	nd USB HID por	t as standar	d
User interface	English, French	, German, F	Russian and Sp	anish	Relay outp	ut	Common	alarm standard		
LEDs	Four status-ind	icating LED	S				SNMP/W	eb card for mor	itoring in SN	VMP-based
Topology	True online, do	uble-conver	rsion		Ontional of	ommunication		, monitoring thre		
Diagnostics	Full system self	-test						Relay card for		
UPS bypass	Automatic bypa					cards (BD Slot) environment and BM			emote shutd	own for IBN
Rail kit	Included with a	all rackmour	nt units		.		AS/400 sy	stems		
Electrical Input					Environme	ntal	05/ 15		· · 0	
Nominal voltage	220–240V				Safety and	EMC marking		C/EN62040-2: E nity, Category C		tegory
Voltage range	160–276 Vac (w	ith load PF	of 0.7)		Audible no	iso	<50 dB	inty, outegoly o	2/, 00	
Frequency range	45–65 Hz (50/60	Hz)			Ambient of		0°C to +40	۴C		
Electrical Output					AIIIDIEIILU	Jeraung		40°C with batter	rios and	
Power factor	0.9				Storage te	mperature		55°C without ba		
Voltage	±3 % of nomina	I regulation	n (on utility and	battery)	Relative hu	umidity		n-condensing		
Frequency regulation	±3 Hz online	0					0 00,0110			
Load crest factor	3 to 1									
Description	Denter					0	Andre D		N D	W-:
Description	Part nun	iber	Rating (VA/Wa	atts) Input	connection	Output recep	itacles D	imensions H x \	N x D, mm	Weight, kg
Fower Models						(0) 0 (0)				10.0
PW9130i700T	10300643		700/630	C14		(6) C13		30 x 160 x 350		12.2
PW9130i1000T-XL	10300643		1000/900	C14		(6) C13		30 x 160 x 380		14.5
PW9130i1500T-XL	10300643		1500/1350	C14		(6) C13		30 x 160 x 430		19.0
PW9130i2000T-XL	10300643		2000/1800	C14		(8) C13, (1) C		25 x 214 x 410		34.5
PW9130i3000T-XL	10300643	37-6591	3000/2700	C20		(8) C13, (1) C	19 32	25 x 214 x 410		34.5
Tower Extended Battery										
PW9130N1000T-EBM	10300643		NA	NA		NA		30 x 160 x 380		18.5
PW9130N1500T-EBM	10300643		NA	NA		NA		30 x 160 x 430		24.3
PW9130N3000T-EBM	10300644	10-6591	NA	NA		NA	32	25 x 214 x 410		50.0
Rack Models			1000/000			(0) 040				10
PW9130i1000R-XL2U	10300645		1000/900	C14		(6) C13		6.5 x 438 x 450		16
PW9130i1500R-XL2U	10300645		1500/1350	C14		(6) C13		6.5 x 438 x 450		19
PW9130i2000R-XL2U	10300645		2000/1800	C14		(8) C13, (1) C		6.5 x 438 x 600		29
PW9130i3000R-XL2U	10300646	63-6591	3000/2700	C20		(8) C13, (1) C	19 86	6.5 x 438 x 600		29.5
Rack Extended Battery N										
PW9130N1000R-EBM2U	10300645		NA	NA		NA		6.5 x 438 x 450		22.1
PW9130N1500R-EBM2U	10300645		NA	NA		NA		6.5 x 438 x 450		28.1
PW9130N3000R-EBM2U	10300646	60-6591	NA	NA		NA	86	6.5 x 438 x 600		41.1
BATTERY RUNTIMES*	Internal 75% Load	batteries 50% Load		EBM 50% Load	+2 75% Load	EBMs 50% Load	+3 75% Load	B EBMs 50% Load	+4 75% Load	EBMs 50% Load
Rack models										
PW9130i1000R-XL2U	13	22	55	82	103	186	151	250	223	312
PW9130i1500R-XL2U	11	18	47	81	83	143	126	208	195	262
PW9130i2000R-XL2U	13	24	63	95	118	190	170	242	221	345
PW9130i3000R-XL2U	8	14	34	62	70	92	96	156	130	211
Tower models										
PW9130i700T-XL	12	19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PW9130i1000T-XL	13	22	55	82	103	186	151	250	223	312
PW9130i1500T-XL	11	18	47	81	83	143	126	208	195	262
PW9130i2000T-XL	21	34	81	130	145	198	184	293	248	431
PW9130i3000T-XL	12	20	49	79	90	143	134	180	165	240
* Runtimes are shown at a 0.7 pow	ver factor. Backup times	are approximate	and may vary with e	quipment, configura	ation, battery age,	temperature, etc.			Windows Vista	X

1 Multilingual graphical LCD

2 Panel for replacing batteries 3 1 USB port + 1 serial port 4 1 Relay Output + 1 EPO

5 EBM battery unit connector



Communications	
Ports	RS-232 and USB HID port as standard
Relay output	Common alarm standard
Optional communication cards (BD Slot)	SNMP/Web card for monitoring in SNMP-based networks, monitoring through Web browser interface. Relay card for integration to industrial environment and BMS, remote shutdown for IBM AS/400 systems
Environmental	
Safety and EMC markings	CE (per IEC/EN62040-2: Emissions, Category C1; Immunity, Category C2), GS
Audible noise	<50 dB
Ambient operating	0°C to +40°C
Storage temperature	-20°C to +40°C with batteries and -25°C to +55°C without batteries
Relative humidity	5–90% non-condensing

Eaton 9135 UPS 5000 - 6000 VA







Hot swappable batteries

LCD rotatable display

Advanced power protection for:

- Medium-density data centers
- · Banking and security systems
- Manufacturing process control
- Retail point-of-sale systems
- Telecommunications/VoIP equipment



Double conversion UPS

Highest power performance

- The 9135 is constantly monitoring power conditions-reg-. ulating both voltage and frequency. Even when presented with the most severe power problems, this UPS's output remains within two percent of nominal voltage.
- Under normal power conditions, the 9135 can operate in high-efficiency mode at up to 97 percent efficiency thus decreasing utility and cooling bills. In double conversion mode, the UPS operates at up to 91 percent efficiency.

Unmatched reliability

- With a wide range of acceptable input voltages, this UPS does not depend on batteries to smooth out power fluctuations. Batteries are conserved for those times when utility power is highly unstable or completely out.
- The 9135 features hot-swappable components and an automatic internal bypass. Users can even remove and replace the battery and power modules without powering down the UPS or interrupting power to loads.
- Up to four external battery modules (EBMs) can be added to deliver more than an hour of extended runtime at full loador hours under lighter loads. Each EBM occupies only 3U of rack space.
- With load segments users can also remotely re-boot lockedup network equipment. During a power outage, you could shut down power to less essential loads to extend battery backup time for more critical devices.

Outstanding versatility

- The 9135 increases power density, delivering 5000 6000 VA/4200W in only 3U of rack space, freeing more rack space for IT and telecom equipments.
- The UPS offers deployment versatility through rack and tower installation options with rail kits and pedestals provided.
- This UPS is even more user-friendly than its predecessors offering greater distribution capabilities, with eight IEC 10A & two IEC 16A outlets to power multiple pieces of equipment without a PDU.
- An intuitive LCD interface provides detailed information and menu-driven functions for UPS management. The blue, backlit LCD screen displays four lines of alphanumeric information. LEDs clearly display UPS status.
- The 9135 comes complete with the Eaton Software Suite CD, including SNMP compatible LanSafe power management software. LanSafe & Netwatch provide control and visibility over multiple UPSs, using an intuitive, graphical interface.

Eaton 9135 UPS







TECHNICAL	SPEC	IFICAT	IONS

General	
User interface	Graphical LCD with blue backlight and text in English, French, German, Portuguese, Italian and Spanish
LEDs	Four status-indicating LEDs
Topology	Double-conversion
Diagnostics	Full system self-test
UPS bypass	Automatic bypass
Rail kit	Included with all units
Electrical Input	
Nominal voltage	230V (220V-240V user selectable)
Voltage range	156–280 Vac (output PF 0.7)
Power draw of UPS (full load)	5000VA: 21.7A @230V 6000VA: 26A @230V
Recommended input- breaker rating	35A
Frequency	50/60 Hz autoselect
Frequency range	40–70 Hz
Electrical Output	
Power factor	0.7
On utility voltage	±2% of nominal regulation
On battery voltage	±2% of nominal regulation
Efficiency	>97% in high-efficiency mode; 91% in normal mode
Frequency regulation	±3 Hz online
Load crest factor	3 to 1
Battery	
Internal battery type	5.5 Ah, sealed, lead-acid; maintenance free
Externa battery modules	Up to four per 9135, rail kits included for rack mounting
EBM battery type	5.5 Ah, sealed, lead-acid; maintenance free

Description	Part number	Rating (VA/Watts)	Input plug	Output receptacles	Dimensions H x W x D, mm	Weight, kg
Rack Tower Models						
PW9135G5000-XL3UEU	103006721-6591	5000/3500	Hardwired	Hardwired + (2) C19, (8) C13	130 x 444 x 741	57
PW9135G6000-XL3UEU	103006722-6591	6000/4200	Hardwired	Hardwired + (2) C19, (8) C13	130 x 444 x 741	57
Extended Battery Modules						
PW9135N6000-EBM3U	103006723-6591	NA	NA	NA	130 x 444 x 650	77.5

BATTERY	Internal	batteries	+1	EBM	+2 E	BMs	+3 E	BMs	+4 E	BMs
RUNTIMES*	70% Load	50% Load	70% Load	50% Load	70% Load	50% Load	70% Load	50% Load	70% Load	50% Load
PW9135G5000-XL3UEU	8	13	33	50	62	91	93	134	124	177
PW9135G6000-XL3UEU	7	10	27	40	51	74	76	110	101	146

* Backup times are approximate and may vary with equipment, configuration, battery age, temperature, etc.

1 Multilingual graphical LCD display 2 Panel for replacing batteries 3 USB & Serial ports, Contact port, EPO connector 4 EBM battery unit connector

6 Communications card slot

Battery recharge				ent of nominal backup		
time			00 percent RCD load	5		
Battery replaceme	ent	Hot-swappa	able internal and ex	ternal batteries		
Start-on-battery		Allows star	t of UPS without uti	lity input		
Communications						
Serial port		RS-232 stan	dard, RS-232 cable	provided		
USB port		HID standar Vista	rd, for communicati	ng with Windows XP/		
Relay output		DB-9 Dry Co	ontact-common alaı	rm standard		
Software		LanSafe & I software	NetWatch monitorin	ig and management		
Optional communi tion cards	ca-	direct contr ConnectUPS Serial Mana trial environ	agement Card-MS f	n SNMP networks dBus RTU interface or integration to indus- nanagement systems,		
Environmental						
Safety markings		CE, GS				
EMC		IEC/EN 62 0	40-2 class A			
Audible noise		Max 46 dB				
Ambient operating	J	0°C to +40°C				
Storage temperatu	ure	-20°C to +40°C with batteries and -25°C to +55°C without batteries				
Relative humidity		5–90% non-	condensing			
Heat dissipation (BTUs	s/hr)				
Operating mode	Eff	ficiency	5 kVA	6 kVA		
Normal	91	%	1150	1350		
Battery	86	%	1650	1960		
High efficiency	97	%	370	450		



Eaton 9140 UPS 7.5 - 10 kVA



Advanced power protection for: Wire closets, server rooms



Double conversion UPS

Highest power performance

- Double conversion topology provides the highest level of protection available by isolating the output power from all input anomalies.
- 9140 protects mission-critical rackmount applications from downtime, data loss/corruption, and process interruption and delivers efficient, reliable power protection in only 6U of rack space, including batteries.

Unmatched reliability

- ABM technology uses an innovative three-stage charging technique, that only recharges the battery when necessary, so the battery experiences less corrosion and service life is prolonged by up to 50%.
- Batteries can be hot-swapped without ever having to shut • down connected equipment.
- Possibility to add more runtime at any time with up to four • external hot-swappable battery modules to run systems for hours if necessary.
- An internal automatic bypass feature allows the 9140 to continuously provide power to critical equipment while the system is serviced - even when the electronics are removed. A manual bypass switch in the chassis eliminates transfer time and allow for module repair and replacement without shutting down the load.

Outstanding versatility

- All 9140 UPS models and corresponding EBMs come with • pre-installed rackmount hardware for easy installation in standard equipment racks (compatible with seismic requirements).
- The 9140 conservers valuable rack space with up to 10 kVA ٠ of power in only 6U of height, including batteries.
- Modular lightweight design facilitates installation and improves service time.
- The UPS is blade servers compatible with standard IEC receptacles.
- The 9140 features both LEDs and an intuitive, multilingual LCD screen on the front of the unit. This relays more in-depth operational information, communicates specific alarms and predictive service needs, and can be used to

program certain features.

LanSafe shutdown software monitors the UPS and in the event of an extended power failure shuts down the entire network in predefined order.

Eaton 9140 UPS

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2

1224



- 2 Panel for replacing batteries
- 3 1 USB port + 1 serial port
- 4 1 REPO connector
 - 5 EBM battery unit connector
 - 6 Harwired output + 3xIEC 16A and 2xIEC 10A
 - 7 Communication card slot

Rating	7,5 kVA	10 kVA
Part number	103005093-6591	103004728-6591
Capacity (kVA/kW) Dimensions HxWxD (mm)	7.5 / 6 263x430x760	10 / 8
	26384308760	263x430x760
Weight		
UPS	115 kg	115 kg
EBM Battery modules	79 kg	79 kg 17 kg
Power module	17 kg 18 kg	17 kg 18 kg
	-	-
Input connection	Hardwired	Hardwired
Output connection	Hardwired + 3xIEC320 16A & 2xIEC320 10A	Hardwired + 3xIEC320 16A & 2xIEC320 10A
Battery runtime	65 minutes with 4 EBMs at full load	45 minutes with 4 EBMs at full load
Operational		
Nominal input voltage (Vac)	Single phase 200-208 V (for 200-208 V nominal ou Three phase 380 / 220 V, 400 / 230 V, 415 / 240 V	ntput): 220-240 V
Input voltage range	Single phase 160-253 V (for 200-208 nominal outp 174-288 V (for 220-240 V nominal output) Three phase 301-499 V / 174 -288 V	ut);
Operating frequency	50/60 Hz auto-sensing	
Input power factor	0,99	
Input current distortion	< 5% THD	
Nominal output voltage	200 V / 208 V / 220 V / 230 V / 240 user selectable	
Output voltage regulation	±2% static, ±10% dynamic	
Overload capacity	±10% of 112 to 130% for 60 sec, transfer to bypas	SS
Permitted load power factors	0,7 lag – 0,8 leading	
Efficiency	> 90%	
User interface		
	Multilingual graphical LCD with blue backlight	
LCD display LED	Multilingual graphical LCD with blue backlight 4 LED	
Standard communication ports	1 x USB, 1 x RS232 serial, 1 x REPO	
Communication Slot	1 x XSlot communication bay	
	Bundled software suite CD	
Power management software	Eaton 9140 is HID-compliant	
Optional	Extended battery modules 3U EBM Slot connectivity: Web/SNMP, Modbus/Jbus, Rel	ay, RS 232 cards
Environmental		
Operating temperature	0°C to +40°C	
Storage temperature	-20°C to +50°C	
Altitude	Operating 3000 m, transit 15000 m	
Audible noise	< 55 dB(A) at 1,5 metres	
Certification		
Markings	CE, GOST	
Safety	IEC/EN 62040-1-1, CE, UL, cULus, NOM, TUV	
EMC	IEC/EN 62040-2, CE, FCC, VCCI, C-tick	







Eaton 9155 and 9355 UPS 8 - 15 kVA



Advanced power protection for:

- Banking
- Small server and computer rooms
- Healthcare
- Network communications
- Security systems
- Automation systems



Double conversion UPS

Premium power performance

- Double conversion topology provides the highest level of protection available by isolating the output power from all input anomalies.
- With a transformer-free design and sophisticated sensing and control circuitry the 9155/9355 delivers an efficiency of up to 92%.
- Active power factor correction (PFC) provides unbeatable 0,99 input power factor and less than 4,5% ITHD, thus eliminating interference with other critical equipment in the same electrical network and enhancing compatibility with generators.
- With 0.9 output power factor, UPS is optimized to protect modern IT equipment without need to oversize.

True reliability

- HotSync technology enables paralleling of two or more UPS • modules to increase availability or add capacity. The technology enables load sharing without any communication line, thus eliminating single point of failure.
- ABM technology charges batteries only when necessary, reducing batteries corrosion and prolonging batteries service life by up to 50%.
- Internal batteries in all standard configurations provide an extended runtime with the smallest footprint.

Extensive configurability

- Further runtime extension is possible with external battery • cabinets.
- A multilingual graphical LCD display makes possible to monitor the UPS status easily.
- The 9155/9355 can also be integrated into network management, industrial automation and building management systems.
- Bundled Eaton Software Suite provides an orderly network shut-. down in an event of extended power outage.

Cost savings and sustainability

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- . The 9155/9355 features high up to 92% efficiency, thus reducing utility costs, extending battery runtimes and producing cooler operating conditions.
- Compact space efficient tower design offers smaller footprint enabling easy data centre space-planning and preserving valuable raised-floor real estate.
- Included internal batteries eliminate the need for costly and space-consuming external battery cabinets.
- A single technical platform used in Eaton's three-phase UPS products guarantee easy upgrades and similarity in service, thus lowering total cost of ownership.
- A range of service agreement options can be easily customized for customers' needs and budget.
- Eaton uses sustainable materials and highly efficient manufacturing technology, thus generating dramatic savings in carbon footprint as compared to competitive UPS systems.

Eaton 9155/9355 UPS 8-15 kVA

TECH							201 / 12 201 / 12	1) = = 0 (() = 1 = 1
UPS ou kVA	itput pow 8	er rating	(0,9 p.f.) 12	15		Output UTHD	<3% (100% linear l linear load)	oad); <5% (standard non
	-			-		Output power factor	0,9 (e.g. 9 kW at 10) kVA)
kW	7,2	9	10,8	13,5		Permitted load power fac	tor 0,7 lagging - 0,8 lea	ading
Genera Efficier	ncy in dou	ıble	92%			Overload on inverter	10 min 100-110%; 1 5 sec 125-150%; 30	
	<u>sion mode</u> ncy in dou	e (full load	d) 52.70			Overload when bypass available	60 min 100-110%, 1 150%	0 min 110-125%; 1 min >125-
	-	e (half loa	d) 90%				150 /0	
		h efficiend	vv	00%		Battery	Maintenan for a	
mode			y up to	98%		Type Chaming method		VRLA batteries, NiCD
	•	llelling wit	th 4			Charging method	ABM technology of Optional	or float
	n <u>c techno</u> pgradeabl		yes			Temperature compensati Battery nominal voltage	· ·	
		r topology		former-free IGBT wit	h PWM	(lead-acid)	384 V (32x12 V, 192	cells)
Audible		topology	<50 d			Charging current / Model	Default 3 A	
	e (max)			m without derating (r	max 2000 m)	*Limited by maximum UPS in	AIVIAX 30 A	
Input			1000	in white a crucing (i		Accessories	put current ruting	
Input w	viring		1 nh	or 3 ph + N + PE			Isolation transforme	r, long-life batteries, externa
	al voltage	rating	i hii	5 pii + ii + r L			battery cabinets, UP	S Center (input, bypass,
(config		ruting		80, 230/400, 240/415 \				connectivity (Web/SNMP, /, Hot Sync, ViewUPS-X
Input v	oltage rar	nae		from nominal at 100	% load, 50%, +20%			Sync parallel tie cabinet,
				nominal at 50% load				ypass, external maintenance
	requency		45-65	HZ			bypass switch	
<u>· · ·</u>	ower fact	LOF	0,99	then 4 E0/		Communications		
Input I	art capabi	:1:4.	Yes	than 4,5%		X-Slot	2 communication ba	ys
	· ·	ed protecti				Serial ports	1 available	
		u protecti	UII Tes			Relay inputs/outputs	2/1 programmable	
Output			1 1			Compliance with standar	rds	
			I pn	or 3 ph + N + PE		Safety (CB certified)	IEC 62040-1, IEC 609	50-1
Output		rating						
<u> </u>	al voltage	rating	220/3	80, 230/400, 240/415 \	/ 50/60 Hz	EMC Performance	IEC 62040-2 IEC 62040-3	
Nomina (config Stand-	al voltage urable) alone UPS	e rating S with 1-p	ohase inpo	ut		Performance	IEC 62040-3	
Nomina (config Stand- Part nu	al voltage urable) alone UP: umber		ohase inpo Descript	ut	Rating	Performance Back-up (pf. 0.7)	IEC 62040-3 Dimensions (HxWxD)	Weight
Nomina (config Stand- Part nu 102253	al voltage urable) alone UP: imber 2		o <mark>hase inp</mark> o Descript 9155-8-S	ut ion -10-32x7Ah	Rating 8 kVA / 7.2 kW	Performance Back-up (pf. 0.7) 10 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm	155 kg
Nomina (config Stand- Part nu 102253 102253	al voltage urable) alone UPS imber 2 3		bhase inpu Descript 9155-8-S 9155-8-S	ut ion -10-32x7Ah -15-32x9Ah	Rating 8 kVA / 7.2 kW 8 kVA / 7.2 kW	Performance Back-up (pf. 0.7) 10 min 15 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 817x305x702 mm	155 kg 160 kg
Nomina (config Stand- Part nu 102253 102253 102253	al voltage urable) alone UPS imber 2 3 4		Descript 9155-8-S 9155-8-S 9155-8-S	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah	Rating 8 kVA / 7.2 kW 8 kVA / 7.2 kW 8 kVA / 7.2 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 817x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg
Nomina (config Stand- Part nu 102253 102253 102253	al voltage urable) alone UPS umber 2 3 4 5		Descript 9155-8-S 9155-8-S 9155-8-S 9155-8-S 9155-8-S	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah	Rating 8 kVA / 7.2 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 817x305x702 mm 1214x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg 275 kg
Nomina (config Stand- Part nu 102253 102253 102253 102253	al voltage urable) alone UPS umber 2 3 4 5 6		Descript 9155-8-S 9155-8-S 9155-8-S 9155-8-S 9155-8-S 9155-10-3	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 817x305x702 mm 1214x305x702 mm 817x305x702 mm 817x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg
Nomina (config Stand- Part nu 102253 102253 102253 102253 102253	al voltage urable) alone UPS imber 2 3 4 5 5 6 7		bhase inpu Descript 9155-8-S 9155-8-S 9155-8-S 9155-8-S 9155-10-3 9155-10-3	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-20-64x7Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 9 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg
Nomina (config Part nu 102253 102253 102253 102253 102253 102253	al voltage urable) alone UPS imber 2 3 4 5 6 6 7 8	S with 1-p	bhase input Descript 9155-8-S 9155-8-S 9155-8-S 9155-8-S 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-20-64x7Ah S-20-64x7Ah S-25-64x9Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 817x305x702 mm 1214x305x702 mm 817x305x702 mm 817x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg
Nomina (config Part nu 102253 102253 102253 102253 102253 102253 102253 102253 5tand-	al voltage urable) alone UPS umber 2 3 4 5 5 6 7 8 8 alone UPS	S with 1-p	bhase input Descript 9155-8-S 9155-8-S 9155-8-S 9155-8-S 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-20-64x7Ah S-20-64x7Ah S-25-64x9Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 9 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg
Stand- Part nu 102253 10253 10253 10253 10253 10253 10253 10253 10253 10253 10253 10253 10253 10253 10253 10354 10455 <	al voltage urable) alone UP: umber 2 3 4 5 5 6 6 7 8 8 alone UP: alone UP: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S with 1-p	bhase input Descript 9155-8-S 9155-8-S 9155-8-S 9155-10-3 9	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-10-32x9Ah S-20-64x7Ah S-20-64x7Ah S-25-64x9Ah ut ion	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min 25 min Back-up (pf. 0.7)	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 250 kg 275 kg Weight
Stand- Part nu 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 5tand- Part nu 102248	al voltage urable) alone UPS imber 2 3 4 5 5 6 7 8 alone UPS alone UPS 0	S with 1-p S with 3-p 55/9355	bhase input Descript 9155-8-S 9155-8-S 9155-8-S 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-4 9155-10-3 9155-10-3 9155-10-4 9155-10-3 9155-10-3 9155-10-4 9155-10-4 9155-10-5 9155-10-4 9155-10-5 9155-8 9155-8 9155-8 9155-8 9155-8	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-20-64x7Ah S-20-64x7Ah S-25-64x9Ah ut ion -10-32x7Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 9 kW 10 kVA / 9 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min 25 min Back-up (pf. 0.7) 10 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 817x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm Dimensions (HxWxD) 817x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 250 kg 275 kg Weight 155 kg
Stand- Part nu 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102248 102248	al voltage urable) alone UPS imber 2 3 4 5 5 6 7 8 alone UPS imber 915 0 1/1023411	S with 1-p S with 3-p 55/9355	bhase input 9155-8-S 9155-8-S 9155-8-S 9155-8-S 9155-10-3 9155-10-3 9155-10-3 9155-20-3 9155-30-3 9155-30-3 9155-30-3 9155-30-3 9155-30-3 9155-30-3 9155-30-3 9155-30-3 9155-30-3 9155-30-3 9155-30-3	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-20-64x7Ah S-20-64x7Ah S-25-64x9Ah ut ion -10-32x7Ah 5-8-N-15-32x9Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 9 kW 10 kVA / 9 kW 8 kVA / 7.2 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min 25 min Back-up (pf. 0.7) 10 min 15 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 817x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 817x305x702 mm 817x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 250 kg 250 kg 255 kg Weight 155 kg 160 kg
Nomina (config Part nu 102253	al voltage urable) alone UP: umber 2 3 4 5 5 6 7 8 alone UP: 1/1023411 2	S with 1-p S with 3-p 55/9355	bhase inpu 9155-8-S 9155-8-S 9155-8-S 9155-8-S 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-8-N 9155-8-N 9155/9353 9155-8-N	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-10-32x9Ah S-20-64x7Ah S-25-64x9Ah ut ion -10-32x7Ah 5-8-N-15-32x9Ah -28-64x7Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW 8 kVA / 7.2 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min 25 min Back-up (pf. 0.7) 10 min 15 min 28 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm Dimensions (HxWxD) 817x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 275 kg 160 kg 275 kg Weight 155 kg 160 kg 250 kg
Stand- Part nu 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102248 102248 102248 102248	al voltage urable) alone UP: imber 2 3 4 5 6 7 8 alone UP: alone UP: 1/1023411 2 3/1023412	S with 1-p S with 3-p 55/9355	bhase input 9155-8-S 9155-8-S 9155-8-S 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-8-N 9155-8-N 9155-8-N 9155-8-N 9155-9355	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-10-32x9Ah S-20-64x7Ah S-25-64x9Ah ut ion -10-32x7Ah 5-8-N-15-32x9Ah -28-64x7Ah 5-8-N-33-64x9Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW 8 kVA / 7.2 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min 25 min Back-up (pf. 0.7) 10 min 15 min 28 min 33 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 817x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 817x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 275 kg Weight 155 kg 160 kg 250 kg 275 kg
Nomina (config Stand- Part nu 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102248 102248 102248 102248 102248	al voltage urable) alone UPS imber 2 3 4 5 5 6 7 8 alone UPS alone UPS imber 915 0 1/1023411 2 3/1023412	S with 1-p S with 3-p 55/9355	bhase input 9155-8-S 9155-8-S 9155-8-S 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-9353 9155/9353 9155/9353 9155/9353	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-20-64x7Ah S-20-64x7Ah S-25-64x9Ah ut ion -10-32x7Ah 5-8-N-15-32x9Ah -28-64x7Ah 5-8-N-33-64x9Ah 5-10-N-10-32x9Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 9 kW 10 kVA / 9 kW 8 kVA / 7.2 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min 25 min Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 10 min 15 min 28 min 33 min 10 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 817x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 817x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 275 kg Weight 155 kg 160 kg 250 kg 275 kg 160 kg 275 kg 160 kg 250 kg 275 kg 160 kg 250 kg 275 kg 160 kg
Nomina (config Part nu 102253	al voltage urable) alone UPS imber 2 3 4 5 5 6 7 8 alone UPS imber 915 0 1/1023411 2 3/1023412 4/1023413 5	S with 1-p	bhase input 9155-8-S 9155-8-S 9155-8-S 9155-8-S 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-8-N 9155/9353 9155/9353 9155/9353 9155/9353 9155/9354	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-20-64x7Ah S-25-64x9Ah ut ion -10-32x7Ah 5-8-N-15-32x9Ah -28-64x7Ah 5-8-N-33-64x9Ah 5-10-N-10-32x9Ah N-20-64x7Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 9 kW 10 kVA / 9 kW 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 9 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min 25 min Back-up (pf. 0.7) 10 min 25 min 33 min 10 min 25 min 33 min 10 min 15 min 28 min 33 min 10 min 20 min 20 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 817x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 275 kg Weight 155 kg 160 kg 250 kg 275 kg 160 kg 250 kg
Nomina (config Part nu 102253	al voltage urable) alone UP: umber 2 3 4 5 5 6 7 8 alone UP: 1/1023411 2 3/1023412 4/1023413 5 6/1023414	S with 1-p	bhase inpu 9155-8-S 9155-8-S 9155-8-S 9155-8-S 9155-10-1 9155-10-1 9155-10-1 9155-8-N 9155/9352 9155-8-N 9155/9352 9155-10-1 9155/9352	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-10-32x9Ah S-20-64x7Ah S-25-64x9Ah ut ion -10-32x7Ah 5-8-N-15-32x9Ah -28-64x7Ah 5-8-N-33-64x9Ah 5-10-N-10-32x9Ah N-20-64x7Ah 5-10-N-25-64x9Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 9 kW 10 kVA / 9 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min 25 min Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 25 min 28 min 33 min 10 min 20 min 25 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 817x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 275 kg Weight 155 kg 160 kg 250 kg 275 kg
Nomina (config Part nu 102253	al voltage urable) alone UP: umber 2 3 4 5 6 7 8 alone UP: 6 7 8 alone UP: 1/1023411 2 3/1023412 4/1023413 5 6/1023414 7/1023415	S with 1-p	bhase input 9155-8-S 9155-8-S 9155-8-S 9155-8-S 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-8-S 9155-10-3 9155-10-3 9155-8-N 9155-8-N 9155-935 9155-935 9155-10-1 9155-935 9155-935 9155-935 9155-935 9155-935 9155-935 9155-935	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-10-32x9Ah S-20-64x7Ah S-25-64x9Ah ut ion -10-32x7Ah 5-8-N-15-32x9Ah -28-64x7Ah 5-8-N-33-64x9Ah 5-10-N-10-32x9Ah N-20-64x7Ah 5-10-N-25-64x9Ah 5-10-N-25-64x9Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 7.2 kW 8 kVA / 7.2 kW 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 10.8 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min 25 min Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min 25 min 33 min 10 min 20 min 25 min 8 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 275 kg Weight 155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 250 kg 275 kg 160 kg
Nomina (config Part nu 102253	al voltage urable) alone UPS imber 2 3 4 5 5 6 7 8 alone UPS 6 7 8 alone UPS 1/1023411 2 3/1023412 4/1023413 5 6/1023414 7/1023415 8	S with 1-p	bhase input 9155-8-S 9155-8-S 9155-8-S 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-8-N 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9354 9155/9355 9155/9354	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-10-32x9Ah S-20-64x7Ah S-25-64x9Ah ut ion -10-32x7Ah 5-8-N-15-32x9Ah -28-64x7Ah 5-8-N-33-64x9Ah 5-10-N-10-32x9Ah N-20-64x7Ah 5-10-N-25-64x9Ah 5-12-N-8-32x9Ah N-15-64x7Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 10.8 kW 12 kVA / 10.8 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min 25 min Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 25 min 33 min 10 min 25 min 33 min 10 min 25 min 8 min 15 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 817x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 275 kg 160 kg 250 kg Weight 155 kg 160 kg 250 kg 275 kg 160 kg 250 kg
Nomina (config Part nu 102253	al voltage urable) alone UPS imber 2 3 4 5 5 6 7 8 alone UPS alone UPS 1/1023411 2 3/1023412 4/1023413 5 6/1023414 7/1023415 8 9/1023416	S with 1-p	bhase input 9155-8-S 9155-8-S 9155-8-S 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-8-N 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9354 9155/9355 9155/9355 9155/9355 9155/9355 9155/9355 9155/9355 9155/9355 9155/9355 9155/9355 9155/9355 9155/9355 9155/9355 9155/9355	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-10-32x9Ah S-20-64x7Ah S-20-64x7Ah S-25-64x9Ah ut ion -10-32x7Ah 5-8-N-15-32x9Ah -28-64x7Ah 5-8-N-33-64x9Ah 5-10-N-10-32x9Ah N-20-64x7Ah 5-10-N-25-64x9Ah 5-12-N-8-32x9Ah N-15-64x7Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 9 kW 10 kVA / 9 kW 8 kVA / 7.2 kW 10 kVA / 9 kW 12 kVA / 10.8 kW 12 kVA / 10.8 kW 12 kVA / 10.8 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min 25 min Back-up (pf. 0.7) 10 min 25 min Back-up (pf. 0.7) 10 min 28 min 33 min 10 min 28 min 33 min 10 min 20 min 25 min 8 min 15 min 20 min 20 min 20 min 20 min 20 min 20 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 817x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 275 kg Weight 155 kg 160 kg 250 kg 275 kg
Nomina (config) Stand- Part nu 102253 102553 102555 105555 105555 105555 1055555 1055555555	al voltage urable) alone UPS imber 2 3 4 5 5 6 7 8 alone UPS imber 915 0 1/1023411 2 3/1023412 4/1023413 5 6/1023414 7/1023415 8 9/1023416 0/1023417	S with 1-p	bhase input 9155-8-S 9155-8-S 9155-8-S 9155-8-S 9155-10-1 9155-10-1 9155-10-1 9155-10-1 9155-10-3 9155-8-S 9155-10-1 9155-8-N 9155-8-N 9155-8-N 9155-9353 9155-10-1 9155-9353 9155-10-2 9155-9353 9155-10-1 9155-9353 9155-10-1 9155-9353 9155-10-2 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9354 9155/9355 9155/9355 9155/9354 9155/9355 9155/9355	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-10-32x9Ah S-20-64x7Ah S-25-64x9Ah ut ion -10-32x7Ah 5-8-N-15-32x9Ah -28-64x7Ah 5-8-N-33-64x9Ah 5-10-N-10-32x9Ah N-20-64x7Ah 5-10-N-25-64x9Ah 5-12-N-8-32x9Ah N-15-64x7Ah 5-12-N-20-64x9Ah 5-12-N-20-64x9Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 7.2 kW 8 kVA / 7.2 kW 8 kVA / 7.2 kW 8 kVA / 7.2 kW 10 kVA / 9 kW 12 kVA / 10.8 kW 12 kVA / 10.8 kW 12 kVA / 10.8 kW 15 kVA / 13.5 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min 25 min Back-up (pf. 0.7) 10 min 25 min 33 min 10 min 15 min 28 min 33 min 10 min 15 min 28 min 33 min 10 min 15 min 20 min 20 min 20 min 20 min 20 min 20 min 30 min 15 min 20 min 5 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 817x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 275 kg 160 kg 275 kg Weight 155 kg 160 kg 250 kg 275 kg 160 kg 275 kg 160 kg
Nomina (config Part nu 102253 102553 102555 105555 105555 1055555 105555555555	al voltage urable) alone UP: umber 2 3 4 5 6 7 8 alone UP: 4 5 6 7 8 alone UP: 1/1023411 2 3/1023412 4/1023413 5 6/1023414 7/1023415 8 9/1023416 0/1023417 1	S with 1-µ	bhase input 9155-8-S 9155-8-S 9155-8-S 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-8-N 9155-8-N 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9354 9155/9355 9155/9355 9155/9354 9155/9355 9155/9355 9155/9354 9155/9355 9155/9355 9155/9355	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-10-32x9Ah S-20-64x7Ah S-25-64x9Ah ut ion -10-32x7Ah 5-8-N-15-32x9Ah -28-64x7Ah 5-8-N-33-64x9Ah 5-10-N-10-32x9Ah N-20-64x7Ah 5-10-N-25-64x9Ah 5-10-N-25-64x9Ah 5-12-N-8-32x9Ah N-15-64x7Ah 5-15-N-5-32x9Ah N-10-64x7Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 7.2 kW 8 kVA / 7.2 kW 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 10.8 kW 12 kVA / 10.8 kW 12 kVA / 10.8 kW 15 kVA / 13.5 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min 25 min Back-up (pf. 0.7) 10 min 28 min 33 min 10 min 25 min 28 min 33 min 10 min 15 min 28 min 33 min 10 min 15 min 20 min 25 min 8 min 15 min 20 min 5 min 10 min 10 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 275 kg 160 kg 275 kg Weight 155 kg 160 kg 250 kg 275 kg 160 kg 250 kg
Nomina (config Part nu 102253 102248 102248 102248 102248 102248 102248 102248 102248 102248 102248	al voltage urable) alone UP: imber 2 3 4 5 6 7 8 alone UP: 6 7 8 alone UP: 7 8 3/1023412 4/1023413 5 6/1023412 4/1023413 5 9/1023414 7/1023415 8 9/1023416 0/1023417 1 2/1023418	S with 1-µ	bhase input 9155-8-S 9155-8-S 9155-8-S 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-4 9155-10-3 9155-10-4 9155-10-4 9155-10-5 9155-10-4 9155-10-5 9155-8-N 9155-8-N 9155/935	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-10-32x9Ah S-20-64x7Ah S-25-64x9Ah ut ion -10-32x7Ah 5-8-N-15-32x9Ah -28-64x7Ah 5-8-N-33-64x9Ah 5-10-N-10-32x9Ah N-20-64x7Ah 5-10-N-25-64x9Ah 5-12-N-8-32x9Ah N-15-64x7Ah 5-12-N-20-64x9Ah 5-12-N-20-64x9Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 7.2 kW 8 kVA / 7.2 kW 8 kVA / 7.2 kW 8 kVA / 7.2 kW 10 kVA / 9 kW 12 kVA / 10.8 kW 12 kVA / 10.8 kW 12 kVA / 10.8 kW 15 kVA / 13.5 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min 25 min Back-up (pf. 0.7) 10 min 28 min 33 min 10 min 25 min 28 min 33 min 10 min 15 min 28 min 33 min 10 min 15 min 20 min 25 min 8 min 15 min 20 min 5 min 10 min 10 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 817x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 275 kg 160 kg 275 kg Weight 155 kg 160 kg 250 kg 275 kg 160 kg 275 kg 160 kg
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Nomina (config) Stand- Part nu 102253 102254 102248	al voltage urable) alone UPS imber 2 3 4 5 5 6 7 8 alone UPS imber 915 0 1/1023411 2 3/1023412 4/1023413 5 6/1023412 4/1023413 5 8 9/1023416 0/1023416 0/1023417 1 2/1023418 8	S with 1-µ	bhase inpu 9155-8-S 9155-8-S 9155-8-S 9155-8-S 9155-10-1 9155-10-1 9155-10-1 9155-10-1 9155-8-N 9155/9351 9155/9351 9155/9351 9155/9351 9155/9351 9155/9351 9155/9351 9155/9351 9155/9351 9155/9351 9155/9352 9155/9352 9155/9352 9155/9352 9155/9352 9155/9352	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-10-32x9Ah S-20-64x7Ah S-25-64x9Ah ut ion -10-32x7Ah 5-8-N-15-32x9Ah -28-64x7Ah 5-8-N-33-64x9Ah 5-10-N-10-32x9Ah N-20-64x7Ah 5-10-N-25-64x9Ah 5-12-N-8-32x9Ah N-15-64x7Ah 5-12-N-5-32x9Ah N-10-64x7Ah 5-15-N-15-64x9Ah 5-15-N-15-64x9Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 7.2 kW 8 kVA / 7.2 kW 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 10.8 kW 12 kVA / 10.8 kW 15 kVA / 13.5 kW 15 kVA / 13.5 kW 15 kVA / 13.5 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min 25 min Back-up (pf. 0.7) 10 min 28 min 33 min 10 min 25 min 8 min 25 min 8 min 20 min 25 min 8 min 15 min 20 min 5 min 10 min 15 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 275 kg Weight 155 kg 160 kg 250 kg 275 kg Weight
Nomina (config Stand- Part nu 102253 102254 102248 102248 102248 102248 102248 102248 102248 102248 102248 102248 102248 102248 102248 102248 102248 102248	al voltage urable) alone UP: umber 2 3 4 5 6 7 8 alone UP: 4 5 6 7 8 alone UP: 1/1023411 2 3/1023412 4/1023413 5 6/1023414 7/1023415 8 9/1023416 0/1023417 1 2/1023418 1 2/1023418 1 1 2/1023418 1 1	S with 1-µ	bhase input 9155-8-S 9155-8-S 9155-8-S 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-10-3 9155-8-N 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9353 9155/9354 9155/9355 9155/9355 9155/9354 9155/9355 9155/9355 9155/9356 9155/9357 9155/9357 9155/9357 9155/9357 9155/9357 9155/9357 9155/9357 9155/9357 9155/9357 9155/9357 9155/9357 9155/9357 9155/9357 9155/9357 9155/9357 9	ut ion -10-32x7Ah -15-32x9Ah -28-64x7Ah -33-64x9Ah S-10-32x9Ah S-20-64x7Ah S-20-64x7Ah S-25-64x9Ah ut ion -10-32x7Ah 5-8-N-15-32x9Ah -28-64x7Ah 5-8-N-33-64x9Ah 5-10-N-25-64x9Ah 5-10-N-25-64x9Ah 5-12-N-8-32x9Ah N-15-64x7Ah 5-12-N-5-32x9Ah N-15-64x7Ah 5-15-N-15-64x9Ah 5-15-N-15-64x9Ah	Rating 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 9 kW 10 kVA / 9 kW 8 kVA / 7.2 kW 10 kVA / 9 kW 10 kVA / 10.8 kW 12 kVA / 10.8 kW 12 kVA / 10.8 kW 15 kVA / 13.5 kW 15 kVA / 13.5 kW	Performance Back-up (pf. 0.7) 10 min 15 min 28 min 33 min 10 min 20 min 25 min Back-up (pf. 0.7) 10 min 28 min 33 min 10 min 25 min 8 min 20 min 25 min 8 min 15 min 20 min 5 min 10 min 15 min 0 min	IEC 62040-3 Dimensions (HxWxD) 817x305x702 mm 817x305x702 mm 1214x305x702 mm	155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 275 kg Weight 155 kg 160 kg 250 kg 275 kg 160 kg 250 kg 250 kg 275 kg 160 kg 250 kg 275 kg

		D:
Part number	Description	Rating
1022532	9155-8-S-10-32x7Ah	8 kVA / 7.2 kW
1022533	9155-8-S-15-32x9Ah	8 kVA / 7.2 kW
1022534	9155-8-S-28-64x7Ah	8 kVA / 7.2 kW
1022535	9155-8-S-33-64x9Ah	8 kVA / 7.2 kW
1022536	9155-10-S-10-32x9Ah	10 kVA / 9 kW
1022537	9155-10-S-20-64x7Ah	10 kVA / 9 kW
1022538	9155-10-S-25-64x9Ah	10 kVA / 9 kW
Stand-alone UPS with 3	-phase input	
Part number 9155/9355	Description	Rating
1022480	9155-8-N-10-32x7Ah	8 kVA / 7.2 kW
1022481/1023411	9155/9355-8-N-15-32x9Ah	8 kVA / 7.2 kW
1022482	9155-8-N-28-64x7Ah	8 kVA / 7.2 kW
1022483/1023412	9155/9355-8-N-33-64x9Ah	8 kVA / 7.2 kW
1022484/1023413	9155/9355-10-N-10-32x9Ah	10 kVA / 9 kW
1022485	9155-10-N-20-64x7Ah	10 kVA / 9 kW
1022486/1023414	9155/9355-10-N-25-64x9Ah	10 kVA / 9 kW
1022487/1023415	9155/9355-12-N-8-32x9Ah	12 kVA / 10.8 kW
1022488	9155-12-N-15-64x7Ah	12 kVA / 10.8 kW
1022489/1023416	9155/9355-12-N-20-64x9Ah	12 kVA / 10.8 kW
1022490/1023417	9155/9355-15-N-5-32x9Ah	15 kVA / 13.5 kW
1022491	9155-15-N-10-64x7Ah	15 kVA / 13.5 kW
1022492/1023418	9155/9355-15-N-15-64x9Ah	15 kVA / 13.5 kW
External battery cabinet	s	
Part number	Description	Rating
1022561	9X55-BAT5-64x7Ah	2x32x7 Ah
1022562	9X55-BAT5-96x7Ah	3x32x7 Ah

Eaton 9355 UPS 20 - 40 kVA



Advanced power protection for:

- Financial services
- · Medium size servers and computers
- ICT
- Critical building infrastructure
- Industrial applications



Double conversion UPS

Premium power performance

- Double conversion topology provides the highest level of protection available by isolating the output power from all input anomalies.
- With a transformer-free design and sophisticated sensing and control circuitry the 9355 delivers an efficiency of up to 93%.
- Active power factor correction (PFC) provides unbeatable 0,99 input power factor and less than 4,5% input ITHD, thus enhancing compatibility with generators and eliminating interference with other critical equipment in the same network.
- The UPS enables optimal power protection for modern 0,9 p.f. rated IT equipment without the need to oversize.
- The 9355 design is also available with 1-phase output (9155) at 20-30kVA power ratings.

True reliability

- HotSync technology makes possible to parallel two or more UPSs to increase availability or add capacity. The technology enables load sharing without any communication line, thus eliminating single point of failure.
- ABM technology charges batteries only when necessary, preventing batteries corrosion and prolonging batteries service life by up to 50%.
- Internal batteries in all standard configurations support more runtime than comparable UPS.

Extensive configurability

- Configurable and multilingual LCD control panel with back light and graphical mimic screen monitors the UPS status easily.
- Connectivity options guarantee a smooth integration with various application systems requirements.
- Bundled with Eaton Software Suite the 9355 provides an orderly network shutdown in an event of extended power outage. If required, the 9355 can also be integrated to network management, industrial automation and building management systems.

Cost savings and sustainability

- The 9355 features high up to 93% efficiency, thus reducing utility costs, extending battery runtimes and producing cooler operating conditions.
- Compact space efficient tower design offers smaller footprint enabling easy data centre space-planning and preserving valuable raised-floor real estate.
- Internal batteries often eliminate the need for costly and space-consuming external battery cabinets.
- A single technical platform used in Eaton's three-phase products guarantee easy upgrades and similarity in service, thus lowering total cost of ownership.
- A range of service agreement options can be easily customized for customers needs and budget.
- Eaton uses sustainable materials and highly efficient manufacturing technology, thus generating dramatic savings in carbon footprint as compared to competitive UPS systems.

Eaton 9355 UPS 20 - 40 kVA

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFIC	ATIONS		
UPS output power rating (0,9	p.f.)	Output power factor	0,9 (e.g. 27 kW at 30 kVA)
kVA	20 30 40	Permitted load power factor	0,7 lagging - 0,8 leading
kW	18 27 36	Overload on inverter	10 min 100-110%; 1 min 110-125%; 5 sec 125-150%; 300 ms >150%
General		Overload when bypass	60 min 100-110%, 10 min 110-125%; 1 min >125-
Efficiency in double	93%	available	150%
conversion mode (full load)		Battery	
Efficiency in double conversion mode (half load)	91%	Туре	Maintenance free VRLA batteries, NiCD
Distributed parallelling with	4	Charging method	ABM technology or Float
Hot Sync technology	4	Temperature compensation	Optional
Field upgradeable	yes	Battery nominal voltage	432 V (36x12 V, 216 cells)
Inverter/rectifier topology	transformer-free IGBT with PWM	(lead-acid)	Default 3 A
Audible noise	<50 dB	Charging current / Model	*Max 60 A
Altitude (max)	1000 m without derating (max 2000 m)	*Limited by maximum UPS input	current rating
Input		Accessories	
Input wiring	1 ph or 3 ph + N + PE		Isolation transformer, long-life batteries, external
Nominal voltage rating (configurable)	220/380, 230/400, 240/415 V 50/60 Hz		battery cabinets, X-Slot connectivity (Web/SNMP ModBus/Jbus, Relay, Hot Sync, ViewUPS-X
Input voltage range	±20% from nominal at 100% load, 50%, +20% from nominal at 50% load		remote display), Hot Sync parallel tie cabinet, integrated manual bypass, external maintenance
Input frequency range	45-65 Hz		bypass switch
Input power factor	0,99	Communications	
Input ITHD	less than 4,5%	X-Slot	2 communication bays
Soft start capability	Yes	Serial ports	1 available
Internal backfeed protection	Yes	Relay inputs/outputs	2/1 programmable
Output		Compliance with standards	
Output wiring	1 ph or 3 ph + N + PE	Safety (CB certified)	IEC 62040-1, IEC 60950-1
Nominal voltage rating (configurable)	220/380, 230/400, 240/415 V 50/60 Hz	EMC	IEC 62040-2
Output UTHD	<3% (100% linear load); <5% (standard non linear load)	Performance	IEC 62040-3

Standard UPS with 3-phase input

Part number 9355	Description	Rating	Runtime (pf 0.7)	Dimensions (HxWxD)	Weight
1025061/1026598	9355/9155-20-N-5-1x9Ah-MBS	20 kVA / 18 kW	5 min	1684x494x762 mm	300 kg
1025062/1026599	9355/9155-20-N-13-2x9Ah-MBS	20 kVA / 18 kW	13 min	1684x494x762 mm	400 kg
1025063/1026600	9355/9155-20-N-22-3x9Ah-MBS	20 kVA / 18 kW	22 min	1684x494x762 mm	500 kg
1025064/1026601	9355/9155-20-N-31-4x9Ah-MBS	20 kVA / 18 kW	31 min	1684x494x762 mm	600 kg
1025065/1026602	9355/9155-30-N-7-2x9Ah-MBS	30 kVA / 27 kW	7 min	1684x494x762 mm	400 kg
1025066/1026603	9355/9155-30-N-13-3x9Ah-MBS	30 kVA / 27 kW	12 min	1684x494x762 mm	500 kg
1025067/1026604	9355/9155-30-N-20-4x9Ah-MBS	30 kVA / 27 kW	20 min	1684x494x762 mm	600 kg
1025795	9355-40-N-8-3x9Ah-MBS	40 kVA / 36 kW	8 min	1684x494x762 mm	517 kg
1025796	9355-40-N-12-4x9Ah-MBS	40 kVA / 36 kW	12 min	1684x494x762 mm	617 kg

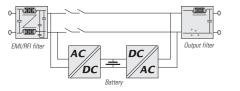
External battery cabinets 9155/9355										
Description	Rating	Runtime	Dimensions (HxWxD)	Weight						
9355-BAT-1x24Ah (30 kVA)	1x36x24 Ah	See page 31	1684x494x758 mm	510 kg						
9355-BAT-2x24Ah (30 kVA)	2x36x24 Ah	See page 31	1684x494x758 mm	870 kg						
	Description 9355-BAT-1x24Ah (30 kVA)	DescriptionRating9355-BAT-1x24Ah (30 kVA)1x36x24 Ah	DescriptionRatingRuntime9355-BAT-1x24Ah (30 kVA)1x36x24 AhSee page 31	DescriptionRatingRuntimeDimensions (HxWxD)9355-BAT-1x24Ah (30 kVA)1x36x24 AhSee page 311684x494x758 mm						

9355 20-40 kVA runtimes

Battery	Qty	5	10	15	20	25	30	35	40	kVA
7 Ah 12 V	1 x 36	24	8	5	-	-	-	-	-	min
9 Ah 12 V	1 x 36	30	12	7	5	-	-	-	-	min
7 Ah 12 V	2 x 36	60	24	14	10	6	-	-	-	min
) Ah 12 V	2 x 36	70	28	18	13	10	7	5	-	min
7 Ah 12 V	3 x 36	103	41	26	17	12	10	7	5	min
9 Ah 12 V	3 x 36	115	46	31	22	16	13	10	8	min
7 Ah 12 V	4 x 36	152	55	40	26	18	15	11	9	min
9 Ah 12 V	4 x 36	158	63	42	31	23	20	15	12	min

Power Protection for Different Needs

There are nine common types of power problems, including power failure, power sag, power surge, undervoltage, overvoltage, switching transient, line noise, frequency variation and harmonic distortion. Based on three UPS topologies, Eaton offers a wide range of UPS solutions to provide an appropriate level of power protection against different power problems and failures.



Passive standby topology (off-line) is the most frequently used UPS topology for protecting PCs against power failure, power sag and power surge. In normal mode, the UPS supplies power to the application directly from the mains, filtered but without active conversion. The battery is charged from the mains. In the event of a power cut or fluctuation, the UPS delivers stable power from the battery. The advantages of this topology are low cost and adequacy for office environments. Passive standby topology is not suitable if the power supply is of low quality (industrial sites) or subject to frequent disruptions.

Line interactive topology is used for protecting enterprise networks and IT applications against power failure, power sag,

power surge, undervoltage and overvoltage. In normal mode,

quality of the supply and reacts to fluctuations. A voltage

overvoltage without using the batteries.

the device is controlled by a microprocessor that monitors the

compensation circuit is enabled to boost or reduce the supply

of this topology is that it enables compensation of under and

voltage to compensate for the fluctuations. The main advantage





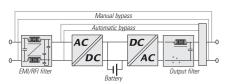








6 SWITCHING TRANSIEN



DC //

AC

Double conversion topology (on-line) is a basis for UPSs designed for continuous power protection of critical equipment against all nine power problems: power failure, power sag, power surge, undervoltage, overvoltage, switching transient, line noise, frequency variation and harmonic distortion. It ensures a consistent quality of power supply regardless of disturbances in the incoming mains. The output voltage is entirely regenerated by a sequence of AC to DC conversion followed by DC to AC conversion in order to create power supply without any electrical interference. Double conversion UPSs can be used with any type of equipment as there are no transients when changing over to battery power.



Sustainability means meeting the current needs of our society in ways that enable future generations to meet their own needs. At Eaton, sustainability is an integral part of the design of our products and production processes right from the start and extends through to the end of the products' life.



An Eaton Green Solution



Eaton's commitment to being a leader in reducing its own ecological footprint covers green technologies, products and services that help our customers utilise electrical power more efficiently while improving environmental performance. In line with goals, we are also fully committed to decreasing our own greenhouse gas (GHG) emissions by 18 percent by 2012.

In recent years Eaton's internal environmental programmes have resulted in significant reductions in electricity and water consumption, waste generation and GHG emissions at our manufacturing sites. All Eaton Electrical sites throughout the world are ISO 14001 certified.

In addition, Eaton has developed a rigorous certification process based on the guidelines of international organisations such as the European Union, the US Federal Trade Commission and the International Organisation for Standardisation (ISO). As a result, the exceptional environmental performance is verified with widely accepted methods such as life cycle assessment (LCA). Eaton products and services meeting the environmental standards of this certification process earn the Eaton "Green Leaf" label. The label is our promise of exceptional, independently verified environmental performance to customers, consumers and our communities.

For more information on how Eaton is Sustainable by Design, please visit www.eaton.com/sustainability.

Eaton Protection Box



Eaton Protection Box 8



Eaton Protection Box 5



Eaton Protection Box 1

Advanced protection for:

- Computers, peripherals and multimedia
- TV, Video and Hi-Fi equipment: Home cinema, DVD writers, digital decoders, etc.
- Broadband modems (Internet and TV)
- IP telephony
- · Household goods, etc.



Surge protection

The Eaton Protection Box multi-way block with high performance surge protection is a simple solution for protecting delicate equipment.

Effective surge protection

The Protection Box is designed to filter the power supply for delicate equipment to protect it against surges, interference and the indirect effects of lightning

The high performance of the Protection Box is based on an advanced design with surge protection in compliance with IEC 61643-1.

Complete protection

The Protection Box range has models with 1, 5 or 8 sockets. Some models also provide protection for telephone connections that can carry surges to the equipment.

- Tel@ models: with telephone/broadband Internet access protection
- Tel@ + TV models: with telephone/broadband Internet access protection + Audio/Video protection module (surge protection for television and FM radio with TV and F-Type connectors)

Practical and economical: replaceable surge protection module

(Protection Box 5 Tel@, 5 Tel@ + TV and 8 Tel@ + TV)

The surge protective components for these models are grouped into a pluggable module for:

- Easy replacement if the surge protective devices are destroyed by a major surge (no need to disconnect the equipment and the pluggable unit is an Eaton standard replacement part)
- Can be updated (adding functions, changing connectors, etc.)

Warranty for connected equipment

Eaton offers free warranty for the equipment connected (applicable for EU countries and Norway only). This insurance is included in the purchase price of the Protection Box and covers up to 50000€ for an 8 socket model to cover damage caused by a failure of the surge protection.

And lots of features to simplify life

- Power ON and active protection indicators
- PowerLine Communications compatibility (Protection Box 5/8) for connecting PLC adapters
- Cable ties and cable markers supplied (5 and 8 socket models)
- · Sockets arranged to allow blocks to be plugged side by side

Eaton Protection Box



- 2 Active protection indicator
- 3 Telephone / broadband protection
- 4 Replaceable surge protection module





Technical Specifications	1	1 Tel@	5	5 Tel@	5 Tel@+TV	8 Tel@+TV
Rating (A/W)	16 A / 3 520 W	16 A / 3 520 W	10 A / 2 500 W	10 A / 2 500 W	10 A / 2 500 W	10 A / 2 500 W
Voltage/frequency			220/250 V	- 50/60 Hz		
IEC 61643-1 tested	Yes	Yes	Yes	Yes	Yes	Yes
PowerLine compatibility	/	/	Yes	Yes	Yes	Yes
Surge test conditions						
Surge test conditions for IEC 61643-1 with 8/20µs		Uo	c = 6.6 kV - Up = 1.5 kV	- In = 2.5 kA - Imax =	8 kA	
Protective devices						
Total rating			30 000 A, 3 x	MOV 10 000 A		
Response time			<1	Ins		
Total power absorbed			1110 .	Joules		
EMI/RFI filter						
52dB from 100kHz to 100MHz	/	Yes	/	Yes	Yes	Yes
Telephone and audio/video line protection						
RJ11/RJ45 telephone including broadband	/	10 000 A	/	10 000 A	10 000 A	10 000 A
Audio/Video line	/	/	/	/	10 000 A	10 000 A
Marking and standards						
Safety			IEC 60-950,	NFC 61-303		
EMC		EN 55082-2, EN 5	55022 class B, EN 6100	0-4-4 level 4 IEC 61000-	4-5, level X=10kV	
Surge protection			IEC 61	I 643-1		
Dimensions and weight						
Dimensions H x W x D	67 x 70 x 105 mm	67 x 70 x 105 mm	65 x 120 x 255 mm	65 x 120 x 260 mm	65 x 120 x 260 mm	65 x 150 x 315 mm
Weight	0.160 kg	0.210 kg	0.610 kg	0.770 kg	0.840 kg	0.850 kg
Customer Service & Support						
2 years warranty		Standard produ	ct exchange ; warranty	for connected equipn	nent up to 50 000 €	
Replaceable surge protection module		Standard	exchange free of charg	ge from Eaton aftersal	es services	

Part Numbers	1	1 Tel@	5	5 Tel@	5 Tel@+TV	8 Tel@+TV
French sockets (FR)	66 706	66 707	66 710	66 711	66 934	66 935
"Schuko" sockets (DIN)	66 708	66 709	66 712	66 713	66 936	66 937
French sockets (FR-B) for Belgium	/	/	66 932	66 933	66 938	/







- 5 Widely spaced sockets for transformer units, 1 PLC-ready outlet (for Protection Box 5 and 8)
- 6 All outlets with safety shutters

Eaton Protection Box 5

Audio/Video protection module available (for Protection Box 5 Tel@ + TV and 8 Tel@ + TV only)

Eaton Protection Station

500/650/800 VA





Multi-position

Advanced protection for:

- Home computing
- Digital leisure equipment



Combined UPS/surge protection/ multiple socket device

Innovative solutions offering total protection for home computers and digital leisure devices.

Connect all your equipment and protect them against power failures and voltage fluctuations...

Eaton Protection Station can do this, offering in a single device:

- Up to 8 standard outlets
- A high performance surge suppressor
- A UPS with 20 to 30 minutes battery back-up for a typical PC

The first UPS in this class with energy saving features

Eaton Protection Station boasts an efficient electrical design with **EcoControl function** that **automatically disables peripherals** when the master device (Computer, HD TV, Home network storage, etc...) is turned off. This will help you **save up to 30% energy** compared to previous generation UPSs.

One model suitable for each application

3 versions (500 VA/250 W, 650 VA/400 W or 800 VA/500 W backup power), to protect an internet PC, a multimedia computer with peripherals or a hardcore gamer configuration. Thanks to its multi-position format Eaton Protection Station can fit anywhere.

Guarantees total peace of mind

- Surge suppressor compatible with IEC 61 643-1 standard
 (+ status indicator)
- USB port and power management software as standard (650 & 800 models)
- Data line protection to ensure that the internet line (including xDSL) is protected against surges
- Unlimited warranty for the connected computer equipment (EU countries and Norway)
- · Periodic test and battery replacement indicator



Eaton Protection Station

- 1 Surge protection status indicator
- 2 Line protection for telephone/Internet ADS
- 3 Spaced outlets, compatible with local stan-
- 4a Outlets with surge protection
- 4b Outlets with surge protection and back-up
- 4 2 EcoControl outlets (650 & 800)



Technical Specifications	500	650	800			
Technology	High frequency UPS with surge protection					
Application						
Outlets	6 standard outlets (3 with back-up power and surge protection + 3 with surge pro-	8 standard outlets (4 with back-up power and	d surge protection + 4 with surge protectio			
Performance						
Output power capacity (backup outlets)	500 VA - 250 W	650 VA - 400 W	800 VA - 500 W			
Output power capacity (all outlets)	5 A - 1150 VA	10 A - 2300 VA	10 A - 2300 VA			
Input voltage range	184 V - 264 V	Up to 160 V - 284 V (adjustable)	Up to 160 V - 284 V (adjustable)			
Output voltage and frequency		230 V - 50 / 60 Hz auto-selection				
Protection		Resettable circuit breaker				
Batteries						
Battery type		Replaceable sealed lead-acid batteries				
Battery monitoring	Automatic battery test, batte	ry replacement indicator, protection against de	eep discharges (4-hour limit)			
Battery operation	Cold-start capabl	e (mobile power source), battery charging eve	n in OFF position			
Typical application	1 internet computer	1 multimedia computer + peripherals	1 computer high graphics power			
Backup time with typical application	20 min	30 min	30 min			
Features						
User interface	Operation with mains/battery pow	er, surge suppressor status, overload, battery	replacement, fault, audible alarms			
EcoControl	/	Save up to 30% energy* (efficient electrica	l design and automatic deactivation of id			
Surge protection	Complete common and differential mod	e protection - 3 MOV – Total power: 525 Joules	s, compatible with IEC 61643-1 standard			
Performance on 8/20 wave	Uoc = 6 kV	Uoc = 6 kV	Uoc = 6 kV			
	Up = 1.5 kV	Up = 1.7 kV	Up = 1.7 kV			
	In = 2.5 kA	ln = 2.8 kA	ln = 2.8 kA			
	I max = 8 kA	I max = 8 kA	I max = 8 kA			
PowerLine compatibility	/	1 PLC-ready outlet	1 PLC-ready outlet			
Data line protection	Protection fo	r telephone/fax/modem/Internet ADSL line + Ether	rnet network			
Installation		Requires earth connection				
Standards						
Standards	IEC	62040-1-1, IEC 62040-2, IEC 61643-1, Marquage	CE			
Quality and environment		ISO 9001, ISO14001				
Dimensions and weight						
Dimensions H x W x D	155 x 304 x 137 mm	185 x 327 x 149 mm	185 x 327 x 149 mm			
Weight	2.9 kg	3.8 kg	4 kg			
Power Management						
Com port	1	USB port	USB port			
Software	1	Personal Solution-Pac software on CD, com (power management, Automatic system s				
Customer service & support			, , , , , , , , , , , , , , , , , , , ,			
2 years guarantee	Standard product exchange including the bat	tery ; warranty for the connected computing equ	inment for an unlimited amount /ELL countri			
	Standard product excitative, including the bat	tery, warranty for the connected computing equ	ipment for an uninnited amount (EO COUNT			

500

66 942

66 943

9	J
An E	aton Green Solution

Warranty+

FR outlets

DIN outlets

Part Numbers

*compared to UPS from the previous generations

- 40 1 PLC-ready outlet
- 5 Replaceable batterie
- 6 Reset button (circuit breaker)
- 7 USB port (650 & 800) with Windows/Linux/Mac software
- 8 Indicator for mains/battery operation, overload, fault + audible alarms

Eaton Protection Station 650 & 800

Optional 3 years warranty (depending on the country please visit www.eaton.com/powerquality)

650	800
61 061	61 081
61 062	61 082



Eaton Ellipse ASR 450/600/750/1000/1500 VA



Eaton Ellipse ASR range



Eaton Ellipse ASR versatility

Passive standby (off-line)

Protecting business computer equipment

The highest level of protection for business computers

- Eaton Ellipse ASR UPSs not only provide a battery backed up supply to keep equipment operating when there is a power cut but also provide effective protection against damaging surges
- Ellipse ASR (Advanced Surge Reduction) UPSs include a high performance surge protective device which complies with IEC 61643-1 standards
- Ellipse ASR UPSs also protect telephone, broadband and Ethernet for complete protection

The widest range of sockets

- 4 sockets (450/600/750 models) or 8 sockets (1000/1500 models)
- Practical: French, "Schuko" and universal sockets. Also available with IEC sockets

The greatest flexibility

Extra flat for easy installation in all business environments:

- · Vertical box format or below the desk
- · Horizontal under a monitor
- 19" rack mounted (optional 2U kit)

The best compatibility with computer equipment

The USBS models are designed for compatibility with a wide variety of computers:

- Combined USB and serial ports
- Power management software available under Windows, Linux and Mac OS





Eaton Ellipse ASR 450/600/750/1000/1500 VA

1 4 sockets with surge protection

- 2 4 sockets with surge protection and backup
- 3 Tel/broadband and Ethernet 10/100 MB protection
- 4 Combined USB / serial port
- 5 Replaceable batteries
- 6 Circuit breaker reset button

Eaton Ellipse ASR 1000/1500

Technical Specifications	450	600/600 USBS	750 USBS	1000 USBS	1500 USBS	XL		
Rating (VA/W)	450 VA / 250 W	600 VA / 360 W	750 VA / 450 W	1000 VA / 600 W	1500 VA / 900 W	420 VA / 250 W		
Application								
Multi-way sockets	4	4	4	8	8	5		
Sockets with surge protection and backup /	3/1	3/1	3/1	4/4	4/4	4/1		
Sockets with surge protection for peripherals								
Characteristics								
Input voltage	184 V to 264 V		184 V to 26	4 V (adjustable from 16	1 V to 284 V)			
Output voltage	230 V		230 V	(settable to 220 V, 230 V	, 240 V)			
Frequency			50-60 Hz	autoselect				
Surge protection		Integral surge pro	otection device to IEC 6	1643-1, Total surge abs	orption: 525 Joules			
Circuit breaker			With	reset				
Battery								
Replaceable battery			Compact sea	aled lead acid				
Battery charger			Operates when the	UPS is under power				
Battery test	Yes	Yes	Yes	Yes	Yes	Yes		
Cold start (no mains)	Yes	Yes	Yes	Yes	Yes	Yes		
Deep discharge protection	4 hours	4 hours	4 hours	4 hours	4 hours	48 hours		
Battery replacement indicators	LED + audible alarm							
50% load backup	11 min	15 min	13 min	18 min	16 min	4 EXB : 15h		
70% load backup	6 min	7 min	6 min	9 min	8 min	4 EXB : 9h20 min		
Communication								
Communications port (USBS models)	/	Combined USB	Combined USB	Combined USB	Combined USB	/		
		and serial port	and serial port	and serial port	and serial port			
Software supplied as standard (USBS models)	/			03/2000/98/95/Me/NT, I Novell, Debian GNU/Li		/		
Line protection		Tel/Fax	/Modem/Internet et Eth	nernet (available for all	models)			
Standards								
Safety			IEC/EN 62040-1-1,	CB Report, CE mark				
EMC			IEC 6	2040-2				
Surge protection			IEC 6	1643-1				
Mounting, colors, dimensions and weight	t							
Dimensions H x W x D	242 x 81 x 245 mm	270 x 82 x 265 mm	270 x 82 x 265 mm	305 x 80 x 312 mm	317 x 80 x 390 mm	317 x 80 x 390 mm		
Weight	3 kg	4.2 kg	4.4 kg	8.1 kg	11 kg	11 kg		
19″ rack mounting kit	20	20	20	20	20	2U		
Color	Black	Titanium Grey	Titanium Grey	Titanium Grey	Titanium Grey	Titanium Grey		
Customer Service & Support		,	,	,	,	,		
2 years warranty	Standard product exc	hange, including the bat	tery ; warranty for the c	onnected computina eau	uipment for an unlimited	amount (EU countries		
Warranty+				untry please visit www.				

Part Numbers	450	600	600 USBS	750 USBS	1000 USBS	1500 USBS	XL
French sockets (FR)	66 940	66 765	66 769	66 773	66 777	66 781	66 792
Schuko sockets (DIN)	66 941	66 766	66 770	66 774	66 778	66 782	66 793
UNI sockets	/	66 767	66 771	66 775	66 779	66 783	66 794
IEC sockets	×	66 768	66 772	66 776	66 780	66 784	66 795
Accessories							
19″ rack mounting kit	68 561	68 561	68 561	68 561	68 561	66 561	68 561
Ellipse EXB	/	/	/	/	/	/	66 791

* Ellipse ASR 375 IEC (66 764) available upon request.





- 1 Combined USB/serial port (USBS models)
- 2 Tel/broadband and Ethernet 10/100 MB protection
- 3 Replaceable batteries
- 4 3 sockets with surge protection and backup
- and 1 socket with surge protection
- 5 Circuit breaker reset button

Eaton Ellipse ASR 450/600/750



Eaton Ellipse MAX 600/850/1100/1500 VA



Eaton Ellipse MAX range



Eaton Ellipse MAX versatility

Advanced protection for:

- Workstation
- Small servers
- · Office equipment



Line interactive

Power protection for workstations and small servers

Availability

- Line Interactive technology: Eaton Ellipse MAX provides effective protection, even in disturbed electrical environments. Fluctuations in voltage are automatically corrected by an AVR device (booster/fader), without using the batteries. UPSs not only provide a battery backed up supply to keep equipment operating when there is a power cut but also provide effective protection against damaging surges.
- Surge protection: Eaton Ellipse MAX includes a high performance surge protective device which complies with IEC 616431 standard.
- Robust: A wide tolerance of input voltage avoids excessively frequent changeover to battery power. This means that maximum capacity is always available. The thresholds for changeover to battery power can be adjusted using the supplied Solution-Pac software.

Value

- Easy installation: Eaton Ellipse MAX USBS models are supplied with power management software & communication cables
- Unlimited warranty: Eaton Ellipse MAX provides a warranty of connected computer equipment for an unlimited amount

Flexibility

- Connection: 4 or 8 standard outlets for each country (FR, DIN or UNIversal), IEC version also available
- Integration: Eaton Ellipse MAX can be installed in vertical position over & under the desk, or horizontally under a monitor
- Rackable: the optional 2U kit allows you to install the Eaton Ellipse MAX in a 19" rack
- Power management: the USBS models feature a combined USB and serial port



Eaton Ellipse MAX 600/850/1100/1500 VA

1 4 sockets with surge protection

- 2 4 sockets with surge protection and backup
- 3 Internet and Ethernet protection
- 4 Combined USB / serial port
- 5 Replaceable batteries
- 6 Circuit breaker reset button



Eaton Ellipse MAX 1500

Technical Specifications	600	600 USBS	850 USBS	1100 USBS	1500 USBS
Rating (VA/W)	600 VA / 360 W	600 VA / 360 W	850 VA / 550 W	1100 VA / 660 W	1500 VA / 900 W
Technology		Line-Interactive H	igh Frequency (Automatic V	oltage Regulation)	
Connections					
Multi-way sockets: French, Schuko, Universal,	4	4	8	8	8
Sockets with surge protection and backup / Sockets with surge protection for peripherals	3/1	3/1	4/4	4/4	4/4
Characteristics					
Input voltage		165 V -	285 V (adjustable to 150 V	- 285 V)	
Output voltage		230 V (adjustable to 220 V - 230 V -	- 240 V)	
Frequency			50-60 Hz autoselect		
Surge protection		Integral surge protection d	evice to IEC 61643-1, Total s	urge absorption: 525 Joules	
Circuit breaker			With reset		
Battery					
Replaceable battery			Compact sealed lead acid		
Battery charger		Opera	tes when the UPS is under	power	
Battery management		Battery test, Cold	l start (no mains), Deep disc	charge protection	
Battery replacement indicators			LED + audible alarm		
Typical backup times for 50 and 70% of the VA	12/7 min	12/7 min	18/12 min	15/9 min	12/7 min
Communication					
Communications port	/		Combined USE	and serial port	
Software supplied as standard	/	Compatible with: Windo		NT, Mandrake Linux, Mandri GNU/Linux, Mac OS X	va Linux, Red Hat Linux,
Line protection		Tel/Fax/M	lodem/Internet et Ethernet i	10/100 MB	
Standards					
Safety		IEC/E	N 62040-1-1, CB Report, CE	mark	
EMC			IEC / EN 62040-2 C1		
Surge protection			IEC 61643-1		
Mounting, Dimensions and Weight					
Dimensions H x W x D	314 x 82 x 301 mm	314 x 82 x 301 mm	314 x 82 x 410 mm	314 x 82 x 410 mm	314 x 82 x 410 mm
Weight	5.75 kg	5.75 kg	10.2 kg	10.2 kg	10.2 kg
19″ rack mounting kit	2U	20	2U	2U	2U
Customer Service & Support					
2 years warranty	Standard product exchange	ge, including the battery ; war	ranty for the connected com	puting equipment for an unlin	nited amount (EU countries
Warranty+	Opti	onal 3-years warranty (depen	ding on the country please v	isit www.eaton.com/powerqu	uality)

Part Numbers	600	600 USBS	850 USBS	1100 USBS	1500 USBS
French sockets (FR)	68 541	68 545	68 549	68 553	68 557
Schuko sockets (DIN)	68 542	68 546	68 550	68 554	68 558
UNI sockets	68 543	68 547	68 551	68 555	68 559
IEC sockets	68 544	68 548	68 552	68 556	68 560
Accessories					
19" rack mounting kit	68 561	68 561	68 561	68 561	68 561





- 1 Combined USB/serial port (USBS models)
- 2 Tel/broadband and Ethernet 10/100 MB protection
- **3** Replaceable batteries
- 4 3 sockets with surge protection and backup and 1 socket with surge protection
- 5 Circuit breaker reset button

Eaton Ellipse MAX 600



Eaton Evolution 650/850/1150/1550/2000 VA

1.5-6 . .

1U rack model & tower model

Advanced protection for:

- Rack servers
- Tower servers
- Network devices
- Storage systems

Line interactive

High density protection for network devices

Maximum availability

- **Powershare:** the Eaton Evolution output sockets are individually controlled to provide load-shedding to maximise the backup time and provide remote reboot and sequential start-up as standard
- Continuous power supply: Hot swappable batteries. The optional HotSwap MBP (Maintenance By-Pass) module allows the UPS to be replaced without interrupting the power supply
- Pure sinewave output: when operating in batterie mode the Eaton Evolution still provides high quality output signal for sensitive connected equipment

Minimum total cost of ownership

- Line-interactive HF technology: the best price/performance ratio
- No additional cost: rack 1U and RT models are provided with the rail kits
- Remote supervision: a wide range of options using the Eaton Software suite, including point-to-point power management, SNMP, relay outputs, etc...

Total flexibility

Evolution has unmatched Flexibility.

- · Format: Evolution is available in tower format, rack 1U format, RT2U convertible rack/tower (2kVA model)
- Communication: the Evolution includes both serial and USB ports, plus remote On/Off connector and an extra slot for optional communication cards. The UPS comes with a complete Eaton software suite.

Eaton Evolution UPS 650/850/1150/1550/2000 VA

1 Full user interface:

- ON/OFF button for UPS and outlets
- Load protected/ not protected LED
- Utilised power level/Battery charge level
- Status of switchable outlets
- 2 Panel for batteries replacement (Hot swappable)



Technical Specifications	650	850	1150	1550	2000
Rating (VA/W)	650 VA / 420 W	850 VA / 600 W	1150 VA / 770 W	1550 VA / 1100 W	2000 VA / 1600 W
Format	Tower or 1U Rack	Tower or 1U Rack	Tower or 1U Rack	Tower or 1U Rack	RT2U (tower / rack 2U)
Electrical characteristics					
Technology		Line-Intera	ctive High Frequency (Boos	ter + Fader)	
Input voltage and frequency ranges without using batteries		/-294V (adjustable to 150V-2 to 40 Hz in low-sensitivity mo			
Output voltage and frequency	·	(Adjustable to 200 V (10 % d			
Connections					
Input			1 IEC C14 (10 A) socket		
Outputs	4 IEC C13 (10 A)	4 IEC C13 (10 A)	4 IEC C13 (10 A)	4 IEC C13 (10 A)	8 IEC C13 (10 A)
Remotely controlled sockets	2 groups of 1 x IEC C13 (10 A)	2 groups of 1 x IEC C13 (10 A)	2 groups of 1 x IEC C13 (10 A)	2 groups of 1 x IEC C13 (10 A) 2 groups of 2 x IEC C13 (10
Additional outputs with HS MBP	• •	/Schuko sockets or 3 BS so	• 1	• •	
Additional outputs with FlexPDU		8 FR/Schuko soo	ckets or 6 BS sockets or 12	IEC 10 A sockets	· · · · ·
Batteries					
Typical backup times for 50 and 70% load	9/6 mn	16/7 mn	14/7 mn	14/7 mn	14/7 mn
Battery management	Automatic weekly test (p	eriod adjustable), automatic	recognition of external bat + deep discharge protection		aximisation of backup time
Interfaces					
Communication ports	1 USB port	+ 1 RS232 serial port and rel + 1 mini terminal b	ay contacts (USB and RS23 lock for remote ON/OFF and		nultaneously)
Communications card slots		1 slot for NMC Minislot	card or NMC ModBus/JBu	s or MC Contacts/Serial	
Operating conditions, standards and ap	provals			· · · ·	
Operating temperature	0 to 35°C	0 to 35°C	0 to 35°C	0 to 40°C	0 to 40°C
Noise level	< 40dbA	< 40dbA	< 40dbA	< 40dbA	< 45 dBA
Performance - Safety - EMC	IEC/EN 6	2040-1-1 (Safety), IEC/EN 62 IEC/EN 61000-4-2, 61000-	2040-2 EN 50091-2 class B (E -4-3, 61000-4-4; 61000-4-5, 6		ormance),
Approvals			CE, CB report, TÜV		
Dimensions W x D x H / Weight					
Dimensions of the Tower	147 x 418 x 234 mm	147 x 418 x 234 mm	147 x 418 x 234 mm	147 x 492 x 234 mm	440 x 509 x 86.2 (2U) mn
Dimensions of the Rack	438 x 366 x 43.2 (1U)	438 x 512 x 43.2 (1U)	438 x 512 x 43.2 (1U)	438 x 556 x 43.2 (1U)	440 x 509 x 86.2 (2U)
Dimensions of the nack		10.05/10.1	12.5/16.6 kg	16.53/20 kg	25.7 kg
Weight of the Tower/Rack	8.4/10.1 kg	10.85/16.1 kg	12.0/ 10.0 kg		
	8.4/10.1 kg	10.85/16.1 Kg	12.3/10.0 kg		5
Weight of the Tower/Rack	8.4/10.1 kg		product exchange, including		

Part Numbers	650	850	1150	1550	2000 RT2U
Tower	68 450	68 452	68 454	68 457	/
Rack1U	68 451	68 453	68 455	68 458	/
Convertible Tower/Rack	/	/	1	1	68 460

- 3 1 USB port + 1 serial port + remote ON/OFF
- 4 4 IEC 10A sockets, including 2 programmable sockets
- **5** Communication card slot

Eaton Evolution 1550 Tower



Eaton Evolution S 1250/1750/2500/3000 VA



Eaton Evolution S



Eaton Evolution S with EXB

Advanced protection for:

- Rack servers
- Tower servers
- · Network devices
- Storage systems



Line interactive

High density protection for network devices

Maximum availability

- Powershare: the Eaton Evolution S output sockets are individually controlled to provide load-shedding to maximise the backup time and provide remote reboot and sequential start-up as standard
- **Continuous power supply:** Hot swappable batteries. The optional HotSwap MBP (Maintenance By-Pass) module allows the UPS to be replaced without interrupting the power supply
- Long backup times: 1 to 4 EXB battery units can be added to the Evolution S
- Pure sinewave output: when operating in batterie mode the Eaton Evolution still provides high quality output signal for sensitive connected equipment

Minimum total cost of ownership

- Line-interactive HF technology: the best price/performance ratio
- No additional cost: all models are provided with tower stands and rail kits
- Remote supervision: a wide range of options using the Eaton Software suite, including point-to-point power management, SNMP, relay outputs, etc...

Total flexibility

Evolution has unmatched Flexibility.

- Format: Evolution S is available in RT2U convertible rack/tower version (optimised for rack mounting) or RT3U (for tower or short-depth racks)
- **Connections:** with FlexPDU and HotSwap MBP the Evolution S can be connected by sockets or terminal blocks. They can be installed as required behind, on the side or on top of the unit
- Compatible with high power factor loads: the Evolution S are rated for 0.9 total power factor (1250 VA/1150 W, 1750 VA/1600 W, 2500 VA/2250 W and 3000 VA/2700 W)
- Communication: the Evolution S includes both serial and USB ports, plus remote On/Off connector and an extra slot for optional communication cards. The UPS comes with a complete Eaton software suite.

Eaton Evolution S UPS 1250/1750/2500/3000 VA

- 1 Full user interface:
- ON/OFF button for UPS and outlets - Load protected/ not protected LED
- Utilised power level/Battery charge level
- Status of switchable outlets
- 2 Panel for batteries replacement (Hot swappable)
- 3 1 USB port + 1 serial port + remote ON/O

Eaton Evolution S 3000 RT2U Netpack

F.3-6 2

Technical Specifications	1250	1750	2500	3000
Rating (VA/W)	1250 VA / 1150 W	1750 VA / 1600 W	2500 VA / 2250 W	3000 VA / 2700 W
Format	RT2U (tower / rack 2U)	RT2U (tower / rack 2U)	RT2U (tower / rack 2U)	RT2U & RT3U
Electrical characteristics				
Technology		Line-Interactive High Fr	equency (Booster + Fader)	
Input voltage and frequency ranges without			Hz (50 Hz system), 56.5 to 70 Hz (
using batteries		1 10	nmable using Personal Solution-F	
Output voltage and frequency	230 V (+6/-10 %) (Adjusta	ble to 200 V (10 % derating of ou	tput power) / 208 V / 220 V / 230 V	/ 240 V), 50/60 Hz +/- 0.1 %
Connections				
Input	1 IEC C14 (10 A) socket	1 IEC C14 (10 A) socket	1 IEC C20 (16 A) socket	1 IEC C20 (16 A) socket
Outputs	8 IEC C13 (10 A)	8 IEC C13 (10 A)	8 IEC C13 (10 A) sockets 1 IEC C19 (16 A) socket	8 IEC C13 (10 A) sockets 1 IEC C19 (16 A) socket
Remotely controlled sockets		2 groups of 2	x IEC C13 (10 A)	
Additional outputs with HS MBP	4 FR/Schuko	sockets or 3 BS sockets or 6 IE	C 10 A sockets or terminal blocks	(HW version)
Additional outputs with FlexPDU		8 FR/Schuko sockets or 6 BS	sockets or 12 IEC 10 A sockets	
Batteries				
Typical backup times for 50 and 70% load*				
Evolution S	20/14 mn	14/9 mn	17/11 mn	15/10 mn
Evolution S + 1 EXB	105/60 mn	60/36 mn	85/55 mn	60/42 mn
Evolution S + 4 EXB	300/200 mn	180/115 mn	290/200 mn	210/135 mn
Battery management	Automatic weekly test (period a	,	on of external battery units => co ime	ntinuous maximisation of backu
Interfaces				
Communication ports	1 USB port + 1 RS23	, ,	(USB and RS232 ports cannot be ote ON/OFF and Remote Power Of	
Communications card slots	1 slot for NMC Mini	slot card (included in Netpack v	ersions) or NMC ModBus/JBus o	r MC Contacts/Serial
Operating conditions, standards and approva	als			
Operating temperature		0 to	o 40°C	
Noise Level	< 45 dBA	< 45 dBA	< 50 dBA	< 50 dBA
Performance - Safety - EMC			091-2 class B (EMC), IEC/EN 62040 -4; 61000-4-5, 61000-4-6, 61000-4-8	
Approvals		CE, CB r	eport, TÜV	
Dimensions W x D x H / Weight				
Dimensions	440 x 509 x 86.2 (2U) mm	440 x 509 x 86.2 (2U) mm	440 x 634 x 86.2 (RT2U) mm 440 x 484 x 130.7 (RT3U) mm	440 x 634 x 86.2 (RT2U) mm 440 x 484 x 130.7 (RT3U) mm
Weight of the Tower/Rack	24.3 kg	26.6 kg	33.8 kg	33.8 kg (RT2U) - 34.3 kg (RT3U
Dimensions of EXB	<u>v</u>	v	e UPS	
Weight of the EXB	30.4 kg	30.4 kg	41.7 kg	41.7 kg
weight of the EAD	~	-	~	
ů.				
Customer Service & Support 2 years warranty		Standard product exch	ange, including the battery	

Part Numbers	S 1250 RT2U	S 1750 RT2U	S 2500 RT2U Netpack*	S 3000 RT3U	S 3000 RT2U Netpack*
Convertible Tower/Rack	68 456	68 459	68 463	68 464	68 465
EXB Models	68 470	68 470	2U = 68 472 - 3U = 68 471	2U = 68 472 - 3U = 68 471	2U = 68 472 - 3U = 68 471

* NMC card included in Netpack versions



4 EXB battery unit connector

- 5 EXB units recognised automatically
- 6 8 IEC 10A sockets, including 4 programmable sockets
- **7** Communication card slot



Eaton EX 700/1000/1500/2200/3000 VA



Eaton EX 1500



Eaton EX Rack/Tower versatility

Ideal protection for:

- Servers, data storage and network equipment
- Telephony VoIP
- Medical equipment Industrial processes



Double conversion (on-line)

Maximum availability

- **Topology:** double conversion on-line UPS with automatic by-pass and power factor correction
- **Powershare:** the Eaton EX output sockets are individually controlled to provide load-shedding to maximise the backup time and provide remote reboot and sequential start-up as standard
- · Continuous power supply: Hot swappable batteries. The HotSwap MBP (Maintenance By-Pass) module allows the UPS to be replaced without interrupting the power supply
- Long backup times: 1 to 4 EXB battery units can be added to the Eaton EX. The Eaton EX 3000XL has a built-in super charger for extra long backup times

Minimum total cost of ownership

- · Easy operation: the LCD gives you access to a wide range of measurements and set-up menus
- · Remote supervision: the Eaton software suite offers a wide range of communication option including: SNMP and HTML, ModBus/JBus and relay outputs

Total flexibility

Eaton EX has unmatched Flexibility.

- Format: EX 700 to 1500 are available in tower format or RT2U convertible rack/tower format (compatible with short-depth rack). EX 2200 & 3000 are available in RT2U format (optimised for rack mounting) or RT3U (for tower or short-depth racks)
- Connections: with FlexPDU and HotSwap MBP, the RT2U and RT3U models can be connected by sockets or terminal blocks. They can be installed as required, on the side or on top of the unit
- Compatible with high power factor loads: Eaton EX is rated for 0.9 power factor (700 VA/630 W, 1000 VA/900 W, 1500 VA/1350 W, 2200 VA/1980 W and 3000 VA/2700 W)
- · Communication: the EX includes both serial and USB ports, plus remote On/Off connector and an extra slot for optional communication cards. The UPS comes with a complete Eaton software suite.

Eaton EX UPS 700/1000/1500/2200/3000 VA

- 1 LCD Multilingual display
- 6 languages,
- displays measurements, - displays alarms,
- access to control and set-up menus.
- 2 Panel for batteries replacement (Hot swappab

1

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2

Eaton EX RT

Technical Specifications	700	1000 - 1000 RT2U	1500 - 1500 RT2U	2200	3000 - 3000 XL
Rating (VA/W)	700 VA / 630 W	1000 VA / 900 W ⁽¹⁾	1500 VA / 1350 W ⁽¹⁾	2200 VA / 1980 W	3000 VA / 2700 W ⁽¹⁾
Format	Mini tower		U (tower/rack 2U)	RT2U (tower / rack 2U) an	d RT3U (tower / rack 3U)
Electrical characteristics					
Architecture		On-line double conversion	n with automatic by-pass ar	d power factor correction	
Input voltage and frequency ranges without using	100/1	120/140/160 V ⁽²⁾ to 284V - 40 to		100/120/160/184 V ⁽²⁾ t	to 284V - 40 to 70 Hz
Output voltage and frequency	230 V (adjustable to 200	/208/220/240/250 V), 50/60 Hz converter mode (3)	auto-select or frequency	230 V (adjustable to 50/60 Hz auto-select or fro	
Connections					
Input		1 IEC C14 (10A) socket		1 IEC C20 (16A) or term MBP HW (H	
Outputs		6 IEC C13 (10A) sockets		8 IEC C13 (10A) sockets	+ 1 IEC C19 (16A) socket
Remotely controlled Powershare sockets	2 indepen	dent groups: 2 + 1 IEC C13 (1	DA) sockets	2 groups of 2 x IEC C	13 (10A) on Eaton EX
Additional outputs with HotSwap MBP FR/DIN/BS/	4 F	R/Schuko sockets or 3 BS so	ockets or 6 IEC 10A sockets	or terminal blocks (HW vers	ion)
Additional outputs with FlexPDU FR/DIN/BS/IEC		8 FR/Schuko so	ckets or 6 BS sockets or 12	IEC 10A sockets	
Battery					
Typical backup times for 50 and 70% load (6) exce	ept for Eaton EX 3000 XL ⁽⁵⁾				
EX	16 min / 10 min	18 min / 12 min	13 min / 9 min	17 min / 12 min	15 min / 10 min
EX + 1 EXB	/	75 min / 50 min	50 min / 35 min	85 min / 60 min	60 min / 40 min
EX + 4 EXB		250 min / 200 min	180 min / 120 min	285 min / 200 min	190 min / 150 min
Battery management		weekly test (period adjustab ernal battery units => contin			
Interfaces	UT EXT			p time + deep discharge pro	lection
Indicators and display	3 LEDS +	adjustable multilingual displ	av: display of measurement	s, access to control and set-	up menus
Communication ports		RS232 serial port and relay co			
Communications card slots		NMC Minislot card (included			
Operating conditions, standards and appr	ovals				
Operating temperature noise level		0'	°C to 40°C continuous, 45 dE	BA	
Performance - Safety - EMC	IEC/E	N 62 040-3 (VFI-SS-113), IEC	/EN 62 040-1-1, IEC/EN 60 95	0-1 (RD), IEC/EN 62 040-2 C1	Class
Approvals	(CE, TüV GS, CB report, cTüV-	US	CE, TüV, CB Report, UL	CE, TüV, CB Report, UL
Dimensions (H x W x D) / Weight				· · · · · · · · · · · · · · · · · · ·	
EX	242 x 153 x 440 mm / 12.5 k	g 242 x 153 x 440 mm / 15 kg	242 x 153 x 490 mm / 18 kg	440 x 131 x / 30 kg (3000	
EX RT2U	/	86.5 x 438 x 483 mm / 18 kg	86.5 x 438 x 483 mm / 20.5 kg	86 x 440 x 64	0 mm / 31 kg
EX EXB	1	242 x 153 x 4	40 mm / 21 kg	440 x 131 x	490 mm ⁽⁷⁾
EX EXB RT2U	1	86.5 x 438 x 48	3 mm / 24.5 kg	/	/
Customer Service & Support					
2 years warranty		Standard	product exchange, including	the battery	
Warranty+	Opti	ional 3-years warranty (depen	ding on the country please vi	isit www.eaton.com/powerqu	ality)
1: Maximum rating with EXB battery units: Eaton EX 100 greater than 0.7 and 0.8 nominal rating, the lower limit i Eaton EX 3000 XL: UPS with high speed charger, withou equipment, configuration, battery age, temperature, etc	0 = 800 W, Eaton EX 1500 =1200 s 180V and 190V respectively. 3: t built-in batteries, for custom c	W and Eaton EX 3000=2400W. 2: 1 Derated by 15% when used as a onfigurations: ask us for details.	ower limits for <20%, <33%, <66 frequency converter. 4: USB and	%, >=66% of nominal power (VA) d RS232 serial ports cannot be us). For active output power sed simultaneously. 5: Exce

Part Numbers	700	1000	1500	2200	3000
EX	68 180	68 181	68 183	68 400	68 402 - XL: 68 404
EX RT2U (includes rack kit)	/	68 182	68 184	68 401	68 403
EX RT3U HotSwap. (includes rack kit + HotSwap MBP)	/	/	/	FR: 68406 DIN: 68407 BS: 68408 IEC: 68409 HW: 68410	FR: 68412 DIN: 68413 BS: 68414 IEC: 68415 HW: 68416
EX RT2U Netpack (includes rack kit and NMC card)		/	/	68 411	68 417
EX EXB	/	68 185	68 185	68 405	68 405
EX EXB (includes rack kit)RT2U	/	68 186	68 186	/	/
EX Rack Kit 2U/3U	/	/	/	68 441	68 441



- 3 1 USB port + 1 serial port + remote ON/OFF and emergency stop inputs.
- 4 EXB battery unit connector.
- 5 EXB units recognised automatically.
- 6 8 IEC 10A sockets, including 4 Powershare programmable sockets and 1 IEC 16A socket.
- 7 Communication card slot.
- 8 Mountings for HotSwap MBP and FlexPDU.



Eaton MX 4/5/8/10/15/20 kVA



Eaton MX versatility



Eaton MX Frame

Advanced protection for:

• Departmental networks, servers and workstations

Double conversion (on-line)

High performance UPS upgradeable from 4 kVA to 20 kVA

Continuous power supply

- Two front access hot-swappables sub-modules (power and battery) for maintenance without load interruption
- Automatic battery test (test period can be set)
- Internal bypass built-in to supply the load even if the UPS fails
- · Large input voltage and frequency ranges to avoid using the batteries unnecessarily

Total flexibility

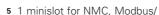
- Can be used as a free-standing tower unit or 19" rack-mounted: only 3U for Eaton MX 4000 and 5000, 16U for Eaton MX Frame
- · LCD multilingual display with mimic and LEDs for rapid view of the UPS status, diagnostics and event log
- Outputs: IEC 10A and 16A outlet sockets and hardwired outputs.
- · Built-in Powershare system for remote reboot of the equipment connected, sequential start-up or load shedding while operating from battery to maintain the power to critical loads
- Eaton MX Frame is compatible with three phase or single phase supplies
- Backup time: 10 mins up to 2 hours by adding 3U battery extension modules

Minimum total cost of ownership (TCO)

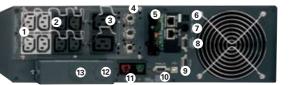
- More power with an output power factor of 0.9
- When the power supply needs to be upgraded, the Eaton MX 4000 and 5000 can be paralleled to provide 8 kVA or 10 kVA using the ModularEasy kit: without extra cost on the initial purchase
- Eaton MX Frame is a modular system with 5 kVA sub-modules paralleled to provide up to 20 kVA or 15 kVA with redundancy

Eaton MX UPS 4/5/8/10/15/20 kVA

- 1 8 IEC 10A sockets
- 2 Retention clips
- 3 2 IEC 16A sockets
- 4 Output circuit protection



JBus or MC Contacts/Serial card 6 RJ11 remote power off



Technical Specifications	4 000	5000	MX Frame 15000	MX Frame 20000
Rating (kVA/kW)	4 kVA / 3.6 kW	5 kVA / 4.5 kW	15 kVA / 13.5 kW	20 kVA / 18 kW
Paralleling				
Maximum rating / redundancy ⁽¹⁾	8 kVA / 4 kVA + 4 kVA redundancy	10 kVA / 5 kVA + 5 kVA redundancy	15 kVA / 10 kVA + 5 kVA redundancy	20 kVA / 15 kVA + 5 kVA redundancy
Inputs				
Technology	VFI-SS-113, on-line	e double conversion with power fact	or correction, convection cooled s	tatic bypass switch
Number of phases, input connections	L + N, terminals up to 6 mm ²	L + N, terminals up to 6 mm ²	L + N or 3P + N, terminals up to AC normal ar	
Nominal voltage	200/208/220/230/240/250 V	200/208/220/230/240/250 V	200/208/220/230/240/250 V (L	+ N) or 380/400/415 V (3P + N)
Voltage range without using battery ⁽²⁾	120 - 280 V	120 - 280 V	120 - 280 V (L + N),	250 - 465 V (3P + N)
Input frequency range, THDI		40-70 H	z, < 7%	
Outputs				
Output connections (3)	Terminals + 8 IEC C13	(10A) + 2 IEC C19 (16A)	Terminals + 8 IEC C13	(10A) + 4 IEC C19 (16A)
Remotely controlled Powershare sockets		2 groups (2 IEC C	13 10A per group)	
Output voltage and frequency ⁽⁴⁾ , THDU,	200/208/2	230/240 /250 V, 50 / 60 Hz autoselect,	frequency converter as standard,	<2%, 97%
Backup time ⁽⁶⁾				
Eaton MX standard backup time	10 minutes	8 minutes	8 minutes	8 minutes
Eaton MX + EXB / MX + 2 EXB / MX + 3 EXB	45 / 80 / 120 minutes	35 / 60 / 95 minutes	35 min (3 EXB)/60 min (6 EXB) /90 min (9 EXB) ⁽⁷⁾	35 min (4 EXB)/60 min (8 EXB) /90 min (12 EXB)
Communications				
Slots	1 slot (MX) or 2 slots (MX	X Frame) for Network Management	Card, NMC ModBus/JBus card or	MC Contacts/Serial card
Ports	Remote Power off (RJ11), 5 outpu	It contacts (DB9), setup using Soluti	on-Pac ⁽⁸⁾ , (USB and DB9-serial po	rts), EXB module detection (RJ45
Operating conditions, standards and ap	provals			
Performance, safety, EMC, surge protection	IEC/EN 62 040-3, IEC/EN	62 040-1-1, IEC/EN 62 040-2 class A	(class B as option), 4 kV IEC 61 643	3, UL 1778 and CSA 22.2 ⁽⁹⁾
Operating temperature, noise, approvals,	0°C to 40°	C continuous, 45 dbA (10), UL, TüV, GS	S mark, CB, C-Tick, CE, IEC 61 931, c	one year (11)
Dimensions H x W x D / Weight				
Eaton MX standard backup tower	444.5 mm x 130.6 n	nm x 735 mm / 57 kg	Tower 690 mm high (795 mm caste	rs) x 444.5 mm wide x 735 mm dee
Eaton MX standard backup rack	3U x 444.5 mm wide compatib	le with 800-1000 mm deep rack	Rack 16U x 444.5 mm wide, compa	atible with 800-1000 mm deep rac
Eaton MX EXB battery unit tower / rack	444.5 mm x 130.6 mm x 650 m	m / 3U x 444.5 mm wide / 70 kg	Dimensions same as MX Frame / 1	94 kg for 15 kVA, 239 kg for 20 kV
Eaton MX ModularEasy, paralleling kit	Dimensions same as	EXB battery unit / 10 kg		-
Customer Service & Support				
1 year guarantee, including batteries.				
Warranty+	Optional 3-	years warranty (depending on the co	untry please visit www.eaton.com/p	owerquality)

units only. 5: Economy mode, 91% in normal mode. 6: At 70% nominal rating with power factor 0.7 typical values after 3 charge/discharge cycles, with 3-5 years old batteries. Weekly battery test without interrupting the load (daily or monthly if required). EXB compatible with 0.8 power factor loads. 7: With Eaton MX Frame EXB (4 battery units). 8: Solution-Pac CD-ROM supplied as standard. 9: Applicable to US models. 10: 50 dbA above 5 kVA. 11: Depending on the country, see www.eaton.com/powerquality

MX 4000	MX 5000	MX Frame 15000	MX Frame 20 000
68 501	68 504	68 513 ⁽¹⁾	68 514 ⁽²⁾
68 502	68 505	68 513 ⁽¹⁾	68 514 ⁽²⁾
68 515	68 515	add multiple N	/IX EXB : 68 515
68 520	68 520	/	/
68 002	68 002	/	/
68 525	68 525	/	/
68 528	68 528	68 528	68 528
68 524 / 68 522	68 524 / 68 523	68 524 / 68 523	68 524 / 68 523
/	/	68 526	68 526
/	1	68 527	68 527
	68 501 68 502 68 515 68 520 68 002 68 002 68 525 68 528	68 501 68 504 68 502 68 505 68 515 68 515 68 520 68 520 68 002 68 002 68 525 68 525 68 528 68 528	68 501 68 504 68 513 ⁽¹⁾ 68 502 68 505 68 513 ⁽¹⁾ 68 515 68 515 add multiple N 68 520 68 520 / 68 002 68 002 / 68 525 68 525 / 68 528 68 528 68 528 68 524 / 68 522 68 524 / 68 523 68 524 / 68 523 / / 68 526

) 68 513 = 68 526 (empty Eaton MX Frame) + 3 x 68 524 + 3 x 68 523. 2: (with rack kit. casters. NMC card) 68 514 = 68 526 (empty Eaton MX Frame) + 4 x 68 524



Eaton MX 4000/5000

- 7 RJ45 EXB battery module detection
- 8 DB 9 with 5 output contacts
- 9 DB 9 serial and USB ports
- 10 DB 15 for paralleling
- 11 EXB battery extension module power connector
- 12 Input
- 13 Output



Eaton EX RT

7/11 kVA single phase input / single phase output 5/7/11 kVA three phase input / single phase output





Battery Integration system

Advanced protection for:

Rack servers enclosures and industrial environment



Double conversion (on-line)

High performance UPS for single phase applications.

Maximum availability

- · Hot swappable UPS and battery modules
- · Internal bypass and maintenance bypass included as standard
- · The UPS can be connected to two independent electrical sources (sources 1 and 2 can be common or separate)
- Large input voltage range without draining the battery: 230V + 20% to - 30% single phase and 400V + 15% to - 20% three phase
- · Batteries tested automatically at regular intervals and protected against deep discharge
- N+1 redundancy supported by two single units

Wide choice of backup times

- From 10 minutes to 2 hours with battery modules or up to 8 hours using the CLA charger module
- · Automatic recognition of battery modules and easy battery installation with battery integration system

Ergonomy

- · Multilingual LCD display and LEDs for rapid view of the UPS status and the operating log
- · Self diagnosis and fault messages

Can be integrated into even the most demanding environments:

Computer

- Tower / 6U Rack convertible
- Comprehensive range of Power Distribution Units for convenient power distribution within the rack

Industrial

- · Compatible with all types of generator set
- · Can be integrated into building management systems
- Steel casing
- Operating temperature up to 45°C
- Meets Marine vibration test requirements

Eaton EX RT UPS

- 1 Slot for Eaton minislot communication card
- 2 9-pin D output connector
- 3 RJ11 port for remote emergency power off 4 Connectors for automatic detection of battery module(s)
- 5 RS 232 communication port
- 6 Connector for EXB modules



Technical Specifications	5 kVA	7 kVA	11 kVA					
Active power kVA / kW	5 kVA / 4 kW	7 kVA / 4.9 kW	11 kVA / 8 kW					
	(single phase input not available for 5kVA)							
Technology	On-line double conversion with PFC (Power Factor Correction) system (applicable to single phase models))							
Rated input voltage	200/208/2	20/230/240/250 V single phase 380/400/415V th	ree phase					
Input voltage range		(- 30%; + 20%) 230 V; (- 20%, + 15%) 400 V						
Input, output frequency range	40-70 Hz, 50) / 60 HZ autoselection, frequency converter as	s a standard					
Output voltage / THDU		200/208/230/240 /250 V +/- 2%; THDU < 2%						
Overall efficiency		Normal mode 91%, eco mode 97%						
THDI		THDI < 5% (single phase input value)						
Crest factor / short circuit current	3:1 / 100 A	3:1 / 100 A	3:1 / 150 A					
Overload capacity	>	>150% 500 ms; 150% 30 s; 125% 60 s; 110% 120	S					
Temperature operating	45°C for 8 Hrs (at nominal	output power for 230 V or 400V input and 230	/ output), 40°C continuous					
Back-up times* at 70% load								
From 10 up to 15 minutes	Stand	dard: 1 power mod. 3U + 1 battery mod. EXB 3U	J = 6U					
From 15 up to 20 minutes		Standard + 1 battery mod. EXB 3U = 9U						
From 40 up to 65 minutes		Standard + 2 battery mod. EXB 3U = 12U						
Connection								
Input /output	Terminal I	block for 13 mm ² (stranded cable) or 10 mm ² (s	olid cable)					
Communication								
Port type	6 voltage free contac	ts DB9 2 A 48 V DC, 1 RS 232, RJ11 for remote	emergency power off					
Slot		1 slot for communication card						
Standards and certification								
Performance and safety	IEC 62040-1/IEC 6	60950/UL 1778 and CSA 22.2 (applicable to sing	le phase models)					
EMC	IEC 62040-2; EN 50091-2; FCC class	A (applicable to single phase models), EMC B	level (option for single phase model)					
Certification		odels)/TÜV, GS mark,CB, C-Tick,CE, IEC 68-2-6						
Dimensions H x W x D / Weight (single p	hase input / three phase input)							
Eaton EX RT standard backup tower	444.5 x 261.2 x 700 mm	444.5 x 261.2 x 700 mm	444.5 x 261.2 x 700 mm					
	89.5 kg	88.3 kg / 89.5 kg	94.2 kg / 95.3 kg					
Eaton EX RT standard backup Network Pack	261.2 (6U) x 444.5 x 700 mm	261.2 (6U) x 444.5 x 700 mm	261.2 (6U) x 444.5 x 700 mm					
rack mounting	97.3 kg	96.1 kg / 97.3 kg	102 kg / 103.1 kg					
Eaton EX RT Power module	444.5 x 130.6 x 700 / 130.6 (3U) x 444.5 x 700 mm	444.5 x 130.6 x 700 / 130.6 (3U) x 444.5 x 700 mm	444.5 x 130.6 x 700 / 130.6 (3U) x 444.5 x 700 mn					
	24.2 kg	23 kg / 24.2 kg	24.9 kg / 26 kg					
Battery module Eaton EXB RT	444.5 x 130.6 x 650 / 130.6 (3U) x 444.5 x 650 mm	444.5 x 130.6 x 650 / 130.6 (3U) x 444.5 x 650 mm	444.5 x 130.6 x 650 / 130.6 (3U) x 444.5 x 650 mn					
	64.5 kg	64.5 kg	68.5 kg					
EX RT CLA module / EX RT Transformer	130.6 (3U) x 444.5 x 650 mm / 12 kg / 87 kg	130.6 (3U) x 444.5 x 650 mm / 12 kg / 87 kg	130.6 (3U) x 444.5 x 650 mm / 12 kg / 87 kg					
Customer Service & Support								
1 year warranty, including battery	Free stan	dard replacement for faulty units, including th	e batteries					
Warranty+	Optional 3-years warran	ty (depending on the country please visit www.	eaton.com/powerquality)					
* (typical values after 3 discharge cycles, hatteries 3-F	years, longer backup times available using the CLA or	EXB module ask for details)						

Part Numbers	EX I	RT 5	EX F	RT 7	EX R	T 11
Input voltage	Single-phase	Three-phase	Single-phase	Three-phase	Single-phase	Three-phase
Eaton EX RT standard back-up time Tower	/	68 054	68 070	68 074	68 110	68 114
Network Pack Rack Format ⁽¹⁾	/	68 056	68 072	68 076	68 112	68 116
EXB RT battery module / EXB RT battery module with EPO	/	68 078 / 68 079	68 078 / 68 079	68 078 / 68 079	68 118 / 68 119	68 118 / 68 119
Eaton EX RT Power module (for use with EXB or CLA module)	/	68 057	68 075	68 077	68 115	68 117
Rack kit for Eaton EX RT Power module / Eaton EXB RT and CLA	/	68 001 / 68 002	68 001 / 68 002	68 001 / 68 002	68 001 / 68 002	68 001 / 68 002
Eaton EX RT Transformer module	/	68 003	68 003	68 003	68 003	68 003
Eaton EX RT CLA module (2 to 8 hours)	/	68 004	68 004	68 004	68 004	68 004
EX RT Battery Integration System ⁽²⁾	/	68 005	68 005	68 005	68 005	68 005
EMC B level filter module	/	/	68 008	/	68 008	/
EX RT PDU 19" rack format ⁽³⁾	/	66 857	66 857	66 857	66 857	66 857
1.8 m battery connection cable (4)	/	68 006	68 006	68 006	68 006	68 006
UPS Control, remote UPS monitor display	/	66 080	66 080	66 080	66 080	66 080

1: the Network Pack version includes standard back-up time unit + Network Management Card + rack mounting kit. 2: trolley capacity 8 modules max, casters, adjustable feet. 3: 12 sockets 4 X IEC 16 A + 8 X IEC 10 A. 4: for non standard inter-module spacing.

- 7 Manual bypass for hot maintenance
- 8 Output connectors
- 9 Source switch 1
- 10 Source 1 connector
- 11 Source 2 connector
- 12 Battery circuit breaker



Eaton BladeUPS

12 – 60 kW





An Eaton Green Solution

Due to outstanding green performance, the BladeUPS has earned the "An Eaton Green Solution" $^{\rm TM}$ label

Advanced power protection for:

- Small, medium and large data centres
- · Blade servers
- Network environment
- · PBX and VoIP equipment
- Networking applications: IPTV, security
- Storage devices: RAID, SAN



High Efficiency UPS for Data Centres

Premium power performance

- BladeUPS provides scalable, flexible backup power optimized for high-density blade servers and IT equipment.
- A single module of BladeUPS provides 12 kW of power in only 6U of standard rack space, including batteries
- A scalable solution that delivers up to 60 kW of redundant power in a single rack enclosure.
- BladeUPS delivers an industry-leading 97% efficiency, resulting in cooler operating conditions and less heat dissipation.

True reliability

- Hot Sync technology makes possible to parallel six UPS modules for extra capacity or redundancy.
- ABM technology charges batteries only with necessary, preventing battery corrosion and prolonging battery service life by up to 50%.
- Replacing hot-swappable batteries and electronic modules can be done without interrupting the power, which dramatically improves the availability of the protected IT equipment.

Extensive configurability

- BladeUPS is extremely flexible and supports a variety of system architectures to fit to your specific requirements and desired levels of redundancy. BladeUPS also accommodates growth through it's saleable building-block architecture.
- Due to the low heat dissipation, air conditioning requirement reduce by up to a third and BladeUPS can be located close to IT equipment.
- BladeUPS automatically detects parallel modules and self-configures for parallel operation.
- A module working in a parallel configuration can be separated and easily re-deployed as a stand-alone module.
- Each BladeUPS can be configured with its own external battery backup.
- BladeUPS is a scalable UPS with it's own power distribution, courtesy of the Rack Power Module. The 3U RPM delivers single-phase power and can be deployed in the same rack as the UPS and IT equipment.
- The BladeUPS can be monitored over LAN or the Internet.

Cost savings and sustainability

- A high level of efficiency leads to utility cost saving, with a 60 kW N+1 solution paying for itself over a 5 year period through energy and cooling savings alone.
- The small footprint of BladeUPS allows extra space for IT equipment in the rack and data centre.
- Eaton uses sustainable materials and highly efficient manufacturing technology to dramatically reduce the carbon footprint when compared to UPS systems on the market.

Eaton BladeUPS

TECHNICAL SPECIFICATIONS

Concerci		0	
General		Communications and Us Software	
Power Rating	12 kW per UPS module	Compatibility	UPS ships with Software Suite CD containing LanSafe power management software and a trial
Efficiency	Up to 97 per cent 371W/1266 BTU/hr at 100% rated load	oompationty	version of PowerVision
Heat Dissipation	Fan cooled, temperature microprocessor	X-Slot Bays	Two available for the cards listed below
Cooling	monitored; front air entry, rear exhaust	·· • • • • • • • • • • • • • • • • • •	Two lines by 20 characters
Audible Noise,		Control Panel LCD	Four menu-driven interface buttons
Normal Operation	<60 dBA at 1 meter		Four status at a glance LEDs
Altitude Before	1000 meters (3300 ft ASL)	Multi-language	English standard; 20 languages available
Derating		Configuration	User capable, firmware auto configures
Input		Changes	
Input Voltage	400 Vac	Dry Contact Inputs	Two, user-configurable
Voltage Range	400V: 311 to 519 Vac, phase to phase	Dry Contact Outputs	One, user-configurable
Frequency Range	50 or 60 Hz, ±5 Hz	Service	
Input Current Distortion	<5% with IT loads (PFC power supplies)	Installation Preventative	User capable, located in the IT racks
Input Power Factor	>0.99 with IT loads (PFC power supplies)	Maintenance	User capable, optional factory service available
Inrush Current	Load dependent	Corrective	User capable, optional factory service available
Input Requirements	Three-phase, four-wire + ground	Maintenance	
Bypass Source	Same as input (single feed)		Hot-swappable batteries
Generator	Fast sync slew rate for generator synchronisation	Serviceability	Hot-swappable electronics module
Compatibility	rasi syne siew rate for generator synchronisation	Features	Automated internal maintenance bypass Auto-configure firmware
Output			Flash firmware upgradeable
Rated Output Voltage	400V: 180 to 240 Vac, Ph to N	Certifications	ridon mininaro apgradouzio
Output	Three-phase, four-wire + ground		150 00040
Configuration	Three-phase, tout-whe + ground	EMI	IEC 62040
Output Frequency	50 or 60 Hz auto-detection on startup	Surge Protection Hazardous	ANSI C62.41, Cat B-3
(nominal)		Materials (RoHS)	EU Directive 2002/95/EC Category 3 (4 of 5)
Frequency Regulation	0.1 Hz free running	Warranty	
Load Power	Lagging: 0.7		10 (1
Factor Range	Leading: 0.9	Standard	12 months
Total Output	<3% with IT loads (PFC power supplies)	Warranty Repair	Factory depot repair or replace
Voltage Distortion	<5% non-linear or non-PFC power supplies	Options and Accessorie	25
Battery		Detachable input cord	
Battery Type	VRLA - AGM	Detachable input/output	t cord assembly
Battery Runtime	13 minutes at 50 per cent load	Detachable paralleling of	
(Internal)	4.7 minutes at 100 per cent load	Extended Battery Modu	les (EBMs)
Battery String	240 Vdc	3U output sub-distribution	
Voltage	Automatic battery test standard	OU to 3U rack power str	
Battery Test	(remote scheduling capable)	60 kW Powerware Blad	eUPS Parallel Bar
Duttory root	Manual battery test from front display	Four-post rail kit	
Battery Recharge	ABM three-stage charging technology	Optional X-Slot Commu	nication Cards
Profile	Abivi tillee-stage tilaiging tetiniology	Application	Card
Battery Cut-off	Variable from 1.67 VPC at <5 min. runtime	Web SNMP	ConnectUPS-X Web/SNMP Card
Voltage Retters Leve		Environment Monitoring	EMP Environmental Monitoring Probe
Battery Low Condition	Announced with alarm		(requires web/SiniviP card)
Contaition		Modbus® RTU	Modbus Card
Extended Battery Capability	Yes, add up to four additional 3U battery enclosures (~34 min at 100 per cent load, >1 hour at 50 per cent	IBM eServer™ (i5™, iSeries™,	Relay Interface Card
	load)	or AS/400), industrial	
Physical		Parallel	Powerware Hot Sync Card
Dimensions (HxWxD)	261 (6U) x 442 x 660 mm	Remote Monitoring	Modem Card
UPS	132 (3U) x 437 x 660 mm	Remote LCD Display	ViewUPS-X
Note:		Recommended ePDU:	
Total Chassis Weight without batteries or electronics	46 kg	Y032440CD100000	RPM - Rack Power Module (BladeUPS in, 12xC13 + 6xC19 out) 20 ft lead
Total Chassis Weight with batteries or	140 kg	PW107BA0UC08	ePDU - Basic (0U, Dual 16A C20 in, 24xC13+ 8xC19 out use in addition to RPM
electronics Total UPS Weight	61 kg	PW107MI0UC08	ePDU - IP Monitored (0U, Dual 16A C20 in, 24xC13+ 8xC19 out) use in addition to RPM
without Batteries Total UPS Weight	140 kg		
with Batteries EBM Weight	140 kg 77 kg		
Low Worght	· · · · · · · · · · · · · · · · · · ·		

Eaton ePDU



User benefits:

- Eaton ePDUs are designed for Mission Critical reliability and server applications
- Support all enclosure power densities Standard 0-4 to Ultra 15 kW and up
- Wide choice of outlets, including UK, Schuko, French, Nema, C13, C19
- Up to 3 types of outlet on a single zero U ePDU
- Solutions include Basic, Metered, Monitored and Managed technologies
- Vertical zero U, or horizontal 1U/2U configurations
- Custom product capabilities to meet the most demanding needs
- Integrated isolation mounting hardware provides
 maximum enclosure integrity
- · High quality sockets ensure maximum reliability
- Multi-option mounting improves installation flexibility. Have confidence that the strip can be adapted to suit any on-site rack configuration.



Enclosure Power Distribution Units

With today's changing technology and the demand for reliability, data centre professionals need sophisticated equipment to monitor consumption at a server level as well as at the data center level to understand and control what is happening within their infrastructure.

Wide choise of models

Eaton ePDUs feature the broadest portfolio in the industry across all power densities and technologies to satisfy the needs of every data centre. This complete suite of power products is designed specifically to help data centre IT managers understand their rapidly escalating power requirements.

The ePDU family includes models with a variety of power inputs and outputs to fit your power requirements. You can select from UK, Schuko, French and IEC (C13 & C19) output sockets and local (UK or Schuko), EN 60309, IEC (C14 & C20) or unterminated cords for termination directly to the output terminals of the UPS.

The ePDU range includes an extensive range of vertical Zero U products that do not occupy server space in racks as well as 1U and 2U formats. Environmental Monitoring options are also available.

From single to dual corded, four technology options, the broadest power range and the ability to manufacture ePDUs with custom arrangement of outlets (number and type) for every region, Eaton ePDUs are distinguished for their quality, dependability and versatility. All products are designed for the specific application with an emphasis on safety and reliability.

Choose your Perfect Solution

Every data centre is unique – choose the right solution of enclosure power distribution units with three simple questions:

1. How much power do you need?

We have power solutions from Standard Power - 1 to 4 kW to Ultra High Power 15kW and up, including single phase 10A, 13A, 16A, 32A and 63A, 3 Phase 16A and 32A

2. Which inputs and outlets do you need?

ePDUs are highly configurable, allowing multiple outlet and plug configurations including 3 types of outlet on a single ePDU – UK, Schuko, French, Nema as well and C13 and C19

3. What functionality do you need?

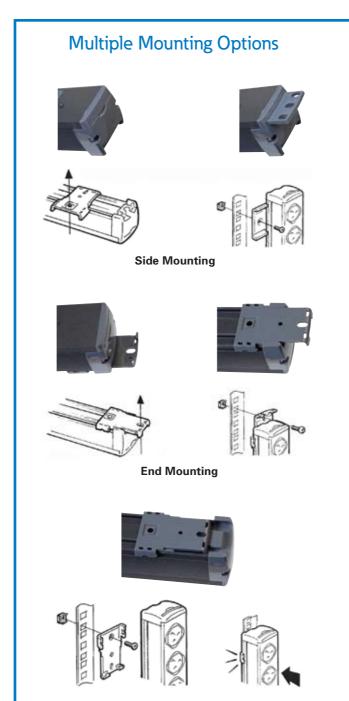
We offer a broad range of functionalities including Basic, Metered, Monitored and Managed technologies

Eaton ePDU

Basic ePDU

Designed for reliable and cost effective power distribution, Basic ePDUs have the form factor and outlet choices to meet your needs. All ePDUs, including basic ePDUs, are made of rugged aluminium chassis and incorporate fully shrouded circuit breakers and switches.

- Rugged construction
- Data centre grade components
- Multiple mounting options
- Fully shrouded circuit breakers and switches
- High-density units available to support blade servers and network switches



Blind Mounting

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Basic ePDU

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Eaton ePDU

Metered ePDU

Metered ePDUs offer an easy-read digital ammeter for easy startup and provisioning of servers. The display is large and bright and can be viewed from afar and through perforations in the cabinets. The ePDU assures easy management and monitoring for current requirements and future expansion.

- Local ammeter display enables load balancing and load segmentation
- Easy-read digital ammeter
- True RMS ammeter provides accurate power measurement



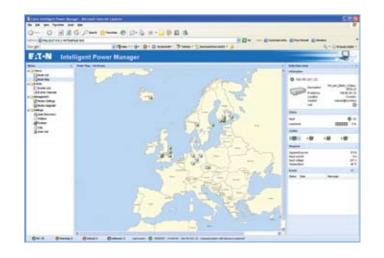
Example 1U and 2U configurations

Monitored ePDU

Monitored ePDUs offer customers the ability to remotely monitor the current draw over an Ethernet connection. This allows the user to aggregate the information from thousands of ePDUs in one location. All monitored ePDUs also include an easy-read digital ammeter for local provisioning and load balancing of servers.

The multi-channel Ammeter allows the monitoring of current on input and each branch circuit to ensure accurate load balancing. The Ammeter can manually or automatically scroll through up to eight circuits. Eaton ePDU's offer a reliable, scalable solution for your current and future requirements.

- Monitor current draw over an Ethernet connection
- Easy-read digital ammeter with up to 8 circuits
- Accurate load balancing
- True RMS ammeter provides accurate measurement
- Manual or auto scrolling through circuits





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Eaton ePDU

Managed ePDU

Manage your power consumption to the individual server level. Managed ePDUs have unprecedented management and monitoring capabilities.

You can even monitor your power down to the individual outlet level to gain a full understanding of your data centre. Userdefinable grouping and sequencing of outlets with time delays allow controlled remote boot-up of servers and equipment. 256-bit encryption ensures secure communication and IPMI and SMASH CLI capability provides harmonised user access to computer hardware and ePDUs.

- Monitor and control individual outlets to manage the efficiency of the Data Centre at server level
- Comprehensive monitoring to the outlet level (Amps, Volts, Watts)
- Individual outlet switching enables remote reboot of servers
- User defined grouping and sequencing of outlets over multiple ePDUs (for A&B feed)
- Communication using SSL, TELNET, http, https, SNMP, IPMI, SMASH CLI, Serial 256-bit encryption security and inbuilt firewall
- Email capability for instant alert notification
- SNMP network management protocol enables you to monitor thousands of ePDUs in the network
- Optional temperature and humidity sensors available



Monitored ePDU





Eaton ePDU

In-Line Monitored ePDU

Retrofit for existing PDUs without power metering.

Designed for new or retrofit applications, our in-line monitoring units provide simple single and dual fed local and remote monitoring solutions. Available with IP connectivity, as well as the Easy-Read digital ammeter.

- Adds power distribution monitoring to existing or Legacy data centres
- Available in 16A & 32A, single & dual circuits
- 19" horizontal mounting or 0U vertical mounting
- Single or Dual fed allows A and B feeds to be monitored
- Fuse-less and breaker-less design: no inline break

Eaton ePDU

Supervise your ePDU power distribution with Intelligent Power Manager

Intelligent Power[®] Manager is a new power monitoring software product from Eaton. It supports Eaton Monitored and Managed ePDU products as well as UPS, so customers can monitor and manage their power distribution via one interface and one IP address.



ePDU.com is Making Product Configuration as Easy as 1, 2, 3...

Making the right decisions from the start can make a difference in the dependability and efficiency of an infrastructure.

ePDU.com is helping make the selection of enclosure power distribution units, as easy as 1, 2, 3. This product configuration wizard is a simple interface that allows the customer to search over 1,000 products for the perfect solution.

This site allows the customer to ask themselves three key questions about their power needs.

- 1. How much power do you need?
- 2. What functionality do you need?
- 3. What inputs and outputs do you need?

This innovative site allows the customer to explore features, benefits and learn basic fundamentals of ePDUs, as well as allows them to demo the live interface.



Intelligent Power Manager Features and Benefits

Key Feature	Benefit
Browser Based	IE 6 and 7; Firefox 2 and 3; Safari. The system
Auto Discovery	Fast installation - automatically detect device
Security	Application has multiple password protected
Remote access	Interface is web-based which enables remote
User definable tree structure	Simplifies management of multiple devices ov
User definable graphics view	Helps in visualising physical locations of devi
Aggregation of device alarms	Single interface to view all alerts. Minimise re Alerts via mobile phones & e-mail.
Aggregated device views	Grouping of multiple 'like' devices simplifies n through a web browser.
Device firmware management	Reduce set-up and maintenance time of Netw firmware (not currently functional with ePDU)
Shutdown agent management	Enables safe shutdown of servers.
Automatic updates	Keeps the software at the latest version level.
Support for many device types	UPS and ePDU with network interface device configuration from a single view.
Customisable views	Lets users select the most relevant data for fa

Eaton ePDUs are covered by a two-year limited factory warranty.

Benefits:

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Orn Brang 1

- Monitor and manage multiple ePDUs and UPS systems over an IP network using a standard web browser
- IPM provides details of ePDU parameters, measurements and settings, from any point in the network, simply using the IP address of each ePDU
- Drill down to individual devices
- User-definable alarms including E-mail and SMS alerts through a single point
- Supervision and management of a whole system though a single user interface
- Configurable views
- Automatic discovery of devices
- Free of charge for up to 10 devices (ePDU or UPS)

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d access levels and support for secure communications.

ote monitoring and access to systems.

over multiple locations through grouping.

vices on maps or schematic drawings.

response time, reduce time to repair, maximise uptime.

management. Single interface accessible from anywhere on the network

work Management Cards by mass-configuring parameters and mass-upgrading J).

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ces are visible and their individual web interfaces accessible for editing /

fast viewing and sorting on the interface.

Power Management Solutions

Power Management Solutions



Benefits of using Power Management Solutions

- Real-time notification makes it easy to prevent or analyse possible failures immediately
- Helps to prevent data losses by enabling controlled shutdown of servers and PC operating systems
- View and analyse power events and measured values from recorded logs
- Save time and money with remote equipment control, which removes the need for additional site visits to restart equipment. It also enables prolonged runtime of essential equipment during power outages by allowing orderly remote shutdown of non-critical systems and processes.

Minimize downtime and prevent data loss

In order to get full benefit out of a UPS it needs to communicate with the outside world. IT system administrators need to be informed if power supply is compromised, facility managers have to be notified if temperature rises in the UPS or battery room and service has to be alarmed if there is a component failure in the system. Having the ability to control power systems remotely or automatically opens up new opportunities and can bring huge savings in work effort, energy usage and response time. Controllable power distribution can be used to reboot equipment or turn it off when it is not needed.

Eaton's Power Management Solutions, including software and connectivity products, scale from homes to most mission-critical data centres and from largest factories to unmanned remote observation stations. They link to network, IT, facility, automation and building management systems delivering information to e-mail, mobile devices and Web among others.

In the optimum case sophisticated analysis in power devices themselves or software such as PowerVision® can prevent the risk of downtime. Even in the case where risk is present, a fast delivery of an alarm increases the likelihood that it can be dealt with before there are any consequences to the operation of the powered system. Even in case where power loss can't be avoided, software can help by automatically shutting down systems in a controlled and predefined manner, preventing data corruption on storage devices and databases. Eaton's offices and representatives have experts who can help in designing and installing these solutions.

Protection: shutting down servers

To ensure the integrity of the system and the data, a computer operating system must be shut down in the correct sequence. Dedicated shutdown software must be installed on the servers to execute various functions before the power supply is cut off. These functions include:

- executing a script to close applications running on the server;
- initiating a shutdown sequence or hibernation after a preset timeout or just before total battery discharge;
- rebooting the operating system automatically or manually when the mains power is restored;
- showing UPS alerts to the user.

Software Suite

Eaton offers a full line of shutdown and monitoring software products to enhance the protection provided by its UPSs. The Software Suite, conveniently packed on one CD-Rom, follows every UPS free of charge.

NetWatch is a shutdown agent for the ConnectUPS Web/SNMP card. It is a very compact piece of software, but still features powerful configuration options for shutdown actions, timings and user notification.

LanSafe is a network shutdown software product that currently supports up to 20 operating systems. It ensures controlled sequential shutdown of the whole network across platforms in case of a prolonged power failure. LanSafe allows the shutdown of up to 64 computers protected by a single UPS.

Intelligent Power Manager is a software tool for managing networked UPS and PDU systems more easily and at lower cost than the major NMS platforms, and is dedicated to power management functions. Administrators have an overall, consolidated view of the main operating parameters of all UPS systems. The web-based interface is intuitive and easy to use while also having high configurability and powerful features.

Intelligent Power Manager centralises alarm management. It can collate several events into a single message and deliver the message via email or SMS.

Intelligent Power Manager is very easy and fast to install. Once running, the software discovers manageable power devices automatically and is operational in just a few seconds.

A version of Intelligent Power Manager limited to 10 monitored devices is available free with each networked Eaton UPS.

PowerVision is performance monitoring and trend analysis software for critical UPSs and multiple UPSs in a network. It stores information about the operation of the UPS device in its relational database where it can be retrieved for display and analysis. PowerVision's alert and notification behaviour is highly configurable, which makes it a great tool for system administrators.

Integrated shutdown controller module can host hundreds of shutdown clients and it can also be used in case of paralleled UPSs. PowerVision's shutdown logic is based on user definable script, which gives almost unlimited flexibility in deciding when to initiate operating system shutdown. The Software Suite CD offers a 30-day trial license of PowerVision Network Edition.

- Network Edition, which monitors multiple UPSs in the network.
- Facility Edition, which provides support for other equipment in the power chain and more options for parallel systems.
- Enterprise Manager, which adds a data view client and support for multiple PowerVision Facility or Network editions.



Linux and Eaton uninterruptible power supplies

For several years Eaton has been actively supporting the trend towards open source software by providing information on our products to the Network UPS Tools development community. For more information on this tool, please see www.networkupstools.org









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Software Compatibility

LanSafe	Compatible with		Operating system support*		
	3105		Windows 2000/XP/2003/Vista/2008		
	5110		VMware ESX 3.5		
	5115		Novell NetWare 5.0, 6.0, 6.5		
	5125		AT&T SVR4 v.3.0		
	5130**		HP UX 10.20, 11.0, 11i (PA RISC) 11i 1.6, 2 (Itanium		
	9120		AIX 4.x (RISC) 4.X, 5.1, 5.2, 5.3 (PowerPC)		
	9125		SCO OpenServer 5.0.6, 5.0.7		
	9130		Solaris 7, 8, 9, 10 (SPARC, Intel)		
	9135**		SGE Irix 6.5 (MIPS)		
	9140		Mac OS X 10.2.8, 10.3.X, 10.4.X (PowerPC)		
	9155		Red Hat Enterprise Linux 3, 4, 5		
	9355		SuSE 8, 9, 10		
			SuSe Enterprise Linux Server 8, 9, 10		
	9390		Fedora Core 5, 6, 7, 8		
	9395				
ntelligent Power Manager	Compatible with		Operating system support*		
	All UPS models with Eaton Web/ SNMP card, managed and monito ePDUs	pred	Windows 2000/XP (Home or Pro) /2003 / Vista / 2008		
PowerVision	Compatible with		Operating system support*		
	Network Edition	Facility Edition	PowerVision Editions		
	5115	5115	Windows		
	5125	5125	2000 Server, Advanced Server, Professional		
	9120	9120	XP Home Edition, Professional		
		9125			
	9125		Server 2003 Standard, Web, Enterprise		
	9130	9130			
	9140	9140	PowerVision shutdown agent		
	9155	9155	Windows		
	9355	9355	2000 Server, Advanced Server, Professional		
	9390	9390	XP Home Edition, Professional		
	9395	9395	Server 2003 Standard, Web, Enterprise		
	Generic third party UPS	Generic third-party UPS			
	Generic redundant units (1+1)	Generic redundant units (1+1)	UNIX		
		93xx Hot Sync parallel	HP-UX v. 10.x and higher		
		(2, 3, or 4 module)	IBM AIX v. 4.x and higher		
			Sun Solaris v. 6.x and higher		
			SGI Irix v. 6.3 and higher		
			Linux (kernel version 2.2 and higher)		
			BSD OS v. 4.x and higher		
			Novell NetWare		
			Netware v. 4.11 and higher, requires TCP/IP		
NetWatch OS Support	Compatible with		Operating system support*		
	All models with ConnectUPS		Windows 2000, XP, 2003, Vista, 20008,		
	Web/SNMP card		VMware ESX 3.5, Novell NetWare,		
	-		SGI IRIX, HP-UX, IBM AIX, Linux, BSD, SCO,		

* Check latest information at www.eaton.com/powerquality ** LanSafe v.6 or higher

Power Management Solutions

Connection Options to Manage and Monitor Your UPS

ConnectUPS Web/SNMP card is a complete UPS monitoring, control and shutdown solution in a networked IT environment. In case of alert the Web/SNMP card can notify users and admin- istrators through e-mail and SNMP traps. In case of a prolonged power failure the protected computer systems can be shut down in a graceful manner with NetWatch and LanSafe software. The unique three-port switching hub on the X-Slot model provides additional network connections. ConnectUPS-X P/N 116750221-001 for Eaton 5115 RM, 5125, 5125 RM, 9125, 9140, 9155, 9355, 9390, 9395, BladeUPS. ConnectUPS-BD P/N 116750222-001 for Eaton 9120 and 9130. ConnectUPS-E P/N 116750223-001 is an external model that is connected to a serial port on a UPS. ConnectUPS-MS P/N 103006826 for Eaton 5130, 9135.
Environmental Manitaring Proba (EMD) adds tomporature

Environmental Monitoring Probe (EMP) adds temperature, humidity and two contact closure monitoring capability to ConnectUPS Web/SNMP cards. It is well suited for monitoring rack temperature and door status, as well as battery temperature. Operating system shutdown can be triggered if user defined thresholds are exceeded or contact closure status changes. P/N 116750224-001 for all UPSs with a Web/SNMP card installed.

Relay/AS400 cards are an easy connection to IBM AS/400 series
computers as well as industrial and building management sys-
tems.
P/N 1018460 for Eaton 5115 RM, 5125, 5125 RM, 9125, 9140,
9155, 9355, 9390, 9395, BladeUPS.
P/N 1014018 for Eaton 9120 and 9130.
P/N 1018460 for Eaton 5115 RM, 5125, 5125 RM, 9125, 9140, 9155, 9355, 9390, 9395, BladeUPS.

X-Slot ModBus card connects the UPS to industrial and building management systems using ModBus/JBUS RTU protocol. P/N 103002510-5501 for Eaton 5115 RM, 5125, 5125 RM, 9125, 9155, 9355, 9395.

ViewUPS-X remote display is an LCD panel that lets users view the status of the UPS from as far as 100 m. ViewUPS-X has also four status LEDs and an alarm sound. The display is bundled with a dedicated X-Slot card that also powers the display through the communication cable. In addition to the remote display connec-tion the card has also a SELV isolated relay port for connection to monitoring systems and AS/400 computers. P/N 1027020 for 5115 RM, 5125, 5125 RM, 9125, 9140, 9155, 9355, 9390, 9395, BladeUPS.











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