

Eaton 9155 - https://www.uni-jet.com/catalog/ibp/on-line-ibp/eaton-9155/

Eaton 9355 - https://www.uni-jet.com/catalog/ibp/on-line-ibp/eaton-9355/



Product brochure Three phase UPS 8-40 kVA

Eaton 9155/9355 UPS

Scalable. Flexible. Compact.



Introduction and overview

The Eaton® 9155/9355 uninterruptible power systems (UPS) are mid-size double-conversion UPSs that resolve all utility power problems and supply clean, continuous, uninterruptible power for the ever-expanding loads in today's space-constrained server rooms. The 9155/9355 also offers an industry-leading combination of flexibility, scalability and power density – all in one high-efficiency package. The product family consists of single- and three-phase UPS models with a power range of 8-40 kVA.

Key applications

- Server and computer rooms, small data centres
- Financial services
- Healthcare
- Building management
- Industrial automation equipment
- Security systems

Benefits

Premium power performance

- Double conversion topology provides the highest level of protection
- With a transformer-free design and sophisticated sensing and control circuitry, the 9155/9355 delivers up to 93 percent efficiency
- Active power factor correction (PFC) provides unbeatable
 0,99 input power factor and less than 4.5 percent 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

True reliability

- Hot Sync[®] technology allows two or more UPSs to be paralleled to increase availability or add capacity
- ABM[®] technology charges batteries only when necessary, preventing corrosion and prolonging battery service life by up to 50 percent
- Internal batteries in all standard configurations support up to 20 min runtime

Extensive configurability

- Configurable and multilingual LCD control panel with back light and graphical mimic screen makes it easy to monitor UPS status
- A wide range of connectivity options guarantees smooth integration with the requirements of various application systems
- Bundled with Eaton Software Suite, the UPS provides an orderly network shutdown in the event of an extended power outage If required, the 9155/9355 can also be integrated with network management, industrial automation and building management systems

Cost savings and sustainability

- The UPS features high efficiency, thus reducing utility costs, extending battery runtimes and producing cooler operating conditions
- The compact tower design offers a smaller footprint, thus enabling easy space planning and preserving valuable floor space
- Internal batteries often eliminate the need for costly and spaceconsuming external battery cabinets





- The single technical platform used in Eaton's three-phase products guarantees easy upgrades and consistent in service, thus lowering total cost of ownership
- Eaton uses sustainable materials and highly efficient manufacturing technology, thus generating savings in carbon footprint

Customised solutions

- Eaton solutions can be customised to meet the requirements of even the most demanding applications
- A range of service agreement options can be easily customised to meet customers' needs and budget

Premium power performance

Double-conversion design for highest power protection Unlike some other commercially available UPS technologies, the double-conversion design used in the 9155/9355 completely isolates output power from input power anomalies and delivers 100-percent conditioned, perfect sine wave output, regulating both voltage and frequency. Even when presented with the most severe power disturbances, power output remains stable.

The 9155/9355 continually monitors incoming electrical power and removes all power irregularities that are inherent in commercial utility power. During power outages and other interruptions, internal batteries provide emergency power to safeguard operation.

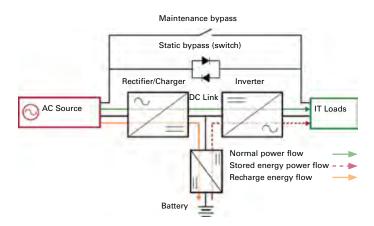
With the 9155/9355 UPS, data centre and facility managers can rest assured that their systems and equipment are fully protected from the effects of mains disturbances.

Self-diagnosis

The 9155/9355 constantly monitors its own operation – including voltage, temperature and function of internal components – and sends an alarm or takes action if it detects a potential problem.

Self-correction

If it senses a problem, the 9155/9355 instantly transfers the power path to a bypass source with zero interruption in power. When the alarm condition passes, the 9155/9355 automatically reverts from bypass to normal power.



Efficiency and cost savings

The 9155/9355 delivers a robust combination of low input current distortion and high power factor for maximum efficiency. Operating at greater than 90 percent efficiency across all load ranges, the 9155/9355 helps to reduce utility costs, extend battery runtimes and produce cooler operating conditions.

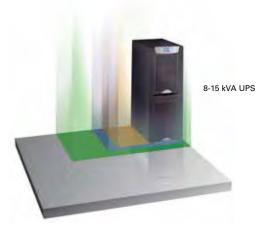
In addition, Eaton's use of sustainable materials and highly efficient manufacturing technology results in savings in carbon foot print compared to competitive UPS products.

The 9155/9355 UPS provides industry-leading power density and a 10-40 percent footprint reduction versus comparable UPS solutions. All standard 9155/9355 configurations incorporate internal batteries to provide significantly more runtime and offer 13 percent more capacity at equivalent VA ratings. Extended runtime allows

the 9155/9355 to power this extra capacity for nearly four times longer without requiring additional hardware, eliminating the need for costly and space-consuming external battery cabinets.

Standard 10 kVA and 20 kVA capacity models can also be upgraded to 15 kVA and 30 kVA respectively, providing 50 percent more power with no additional hardware and no increase in footprint. The small footprint of the 9155/9355 enables easy space planning for data centres and saves valuable floorspace.

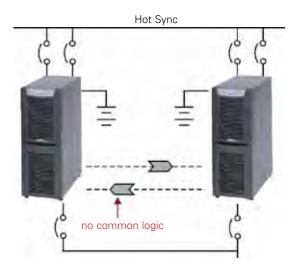
The 9155/9355 UPS provides a 10-40 percent footprint reduction versus comparable UPS solutions





True reliability

Powerware Hot Sync technology boosts power reliabilityEaton's Hot Sync technology is designed for parallel redundant N+1 systems to satisfy 24/7 applications. It can also be used in parallel capacity systems to enable customers with ever-increasing load demands to take advantages of the scalability benefits it offers. Thanks to Hot Sync, up to four equivalent 9155/9355 modules can be paralleled for additional capacity or redundancy. Accurate, equal load share is the number-one characteristic determining the integral quality and reliability of a parallel UPS system. With Hot Sync technology this is achieved without the need for communication between the UPSs, thus no single point of failure is added when introducing parallel modules to a system. From an operational and economical viewpoint, the achieved "close to perfect" reliability brings clear savings in the long run, as every downtime incident is costly and might lead to unpredictable consequences.



The benefits of Hot Sync:

- Erases single point of failure
- Systems are capable of paralleling for both redundancy and capacity
- Ensures that each module is operating independently
- No added circuitry or components are required for standard UPS to be switched in to operate in parallel
- A proven technology thousands of systems are operating successfully around the world

ABM optimises battery performance and service life

The ABM technology used in the 9155/9355 UPS maximises the health and service life of batteries:

- ABM technology uses a unique three-stage charging technique that significantly extends battery service life and optimises recharge time compared to traditional trickle charging
- Temperature-compensated charging monitors battery temperature and adjusts the charge rate accordingly, which properly charges the battery and greatly extends battery life
- An integrated battery management system tests and monitors battery health and remaining lifetime, providing user notifications to guide preventive maintenance

EATON 9155/9355 UPS

Extensive configurability

Connectivity Options

Web/SNMP cards are complete UPS monitoring, control and shutdown solutions in a networked IT environment. In case of alert the Web/SNMP card can notify users and administrators 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 Intelligent Power Protector software. The unique three-port switching hub on the X-Slot model provides additional network connections.

ConnectUPS-X

P/N 116750221-001 for Eaton 9155, 9355, 9390, 9395, BladeUPS. ConnectUPS-E

P/N 116750223-001 is an external model that is connected to a serial port on a UPS. It supports Eaton 9130, 9155, 9355, 9390 and 9395 UPS (requires cable 1023247).

Network Card-MS Web/SNMP adapter

Catalog number: Network-MS

The Eaton Network Card-MS supports SNMP v1 and v3; IPv4 and v6; http, https and SMTP Works with: 5130, 5PX, 9130, 9135, Evolution, Evolution S, EX, MX, MX Frame, EX RT

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 works with Network-MS, Network and Modbus – MS, ConnectUPS and PXGX cards as well as network enabled ePDUs.

Relay/AS400 cards are an easy connection to IBM AS/400 series computers as well as industrial and building management systems. P/N 1018460 for Eaton 9155, 9355, 9390, 9395, BladeUPS. P/N 1014018 for Eaton 9130.

C/N RELAY-MS for 5130, 5PX, 9135, Evolution, Evolution S, EX, MX, MX Frame, EX RT

X-Slot ModBus card connects the UPS to industrial and building management systems using ModBus/JBUS RTU protocol. P/N 103005425-5591 for Eaton 9155, 9355, 9395, BladeUPS.

Network and MODBUS Card-MS (MODBUS-MS) offers ModBus RTU in addition to Web and SNMP for 5130, 5PX, 9130, 9135, Evolution, Evolution S, EX, MX, MX Frame, EX RT

PXGX UPS card P/N 103007974-5591 offers ModBus TCP as well as Web and SNMP interfaces for 9155, 9355, 9390, 9395 and BladeUPS.

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 connection the card has also a SELV isolated relay port for connection to monitoring systems and AS/400 computers.

P/N 1027020 for 9155, 9355, 9390, 9395 and BladeUPS.



ConnectUPS - X



Network Card-MS



Environmental Monitoring Probe



BD relay card (for Eaton 9130 UPS)



Relay MS



X-Slot relay card



PXGX UPS



X-Slot Modbus card





Modbus MS card

ViewUPS-X

UPS options

- 9155/9355 is available with an optional integrated or external MBS that provides wrap-around bypass for UPS maintenance or service without shutting down the load
- An integrated output isolation transformer
- Tie cabinets for parallel systems
- Wall-mountable UPS centre for single UPS input, output and bypass distribution
- External battery cabinets line up and match perfectly with 9155/9355 UPS cabinets, and provide extended runtimes



External maintenance bypass switch (MBS)

Customised solutions

Eaton has vast experience in delivering solutions for the most demanding applications. As an example, marine UPSs have special dependability requirements due to the harsh operational conditions they have to withstand and the critical nature of the equipment they protect. Eaton has supplied marine UPSs to hundreds of vessels over the years.

The 9155/9355 has been also tested and certified for use in medical imaging system applications by all major suppliers of X-ray, MRI and CT machines.

Eaton offers 9155/9355 based customised systems for different markets, including:

- Marine/offshore
- Healthcare/medical
- Oil & Gas
- Rail & Track/underground/traffic/tunnel/mines
- Aviation
- Industrial applications
- Defence/military
- Emergency lighting

Expertise and reliability through Eaton service Eaton provides an extensive technical support network to cover the power protection needs of our customers. We offer a number of distinct service packages to match different types of maintenance needs and budgets. Whichever package you choose, you can rest assured that it will deliver power security and reliability to keep your core business running. For more information, please contact your local Eaton service organisation or authorised service partner.



TECHNICAL SPECIFICATIONS

| UPS output power rating (0.9 p.f.) | | | | | | | | |
|--|--------------------------|---------------------|---|--------------------------------------|--|--|--|--|
| kVA | 8 | 10 | 12 | 15 | | | | |
| kW | 7.2 | 9 | 10.8 | 13.5 | | | | |
| Genera | al | | | | | | | |
| | cy in doul ion mode | ole- (full load) | 92% | | | | | |
| Efficiency in double- conversion mode (half load) | | | 90% | | | | | |
| | cy in high cy mode | | up to | 98% | | | | |
| | ited paral nc technol | lelling with ogy | 4 | | | | | |
| Field up | gradeabl | 9 | yes | | | | | |
| Inverter | /rectifier | topology | transformer-free IGBT with PWM | | | | | |
| Audible | noise | | <50 dB | | | | | |
| Altitude | e (max) | | 1000 m without derating (max 2000 m) | | | | | |
| Input | | | | | | | | |
| Input w | iring | | 1 ph (| or 3 ph + N + PE | | | | |
| Nomina (configu | al voltage urable) | rating | 220/380, 230/400, 240/415 V 50/60 Hz | | | | | |
| Input vo | oltage ran | ge | Low -20% at 100% load/-50% at 50% load without battery discharge; High +10%/max +20% | | | | | |
| Input fr | equency r | ange | 45-65 Hz | | | | | |
| Input po | ower facto | or | 0.99 | | | | | |
| Input IT | HD | | less than 4.5% | | | | | |
| Soft sta | art capabi | lity | Yes | | | | | |
| Internal | backfeed | protection | Yes | Yes | | | | |
| Output | | | | | | | | |
| Output | wiring | | 1 ph (| 1 ph or 3 ph + N + PE | | | | |
| Nomina (configu | il voltage irable) | rating | 220/3 | 220/380, 230/400, 240/415 V 50/60 Hz | | | | |

| Output UTHD | <3% (100% linear load); <5% (reference non- linear load) |
|--|---|
| Output power factor | 0,9 (e.g. 9 kW at 10 kVA) |
| Permitted load power factor | 0.7 lagging - 0.8 leading |
| Overload on inverter | 10 min 100-110%; 1 min 110-125%; 5 sec 125-150%; 300 ms >150% |
| Overload when bypass avail- able | 60 min 100-110%, 10 min 110-125%; 1 min >125- 150% |
| Battery | |
| Туре | Maintenance-free VRLA batteries, NiCd |
| Charging method | ABM technology or Float |
| Temperature compensation | Optional |
| Battery nominal voltage (lead-acid) | 384 V (32x12 V, 192 cells) |
| Charging current / Model | Default 3 A *Max 30 A |
| *May be limited by maximum UPS | input current rating |
| Accessories | |
| | Isolation transformer, long-life batteries, external bat- tery cabinets, UPS Center (input, bypass, distribution), X-Slot connectivity (Web/SNMP, ModBus/Jbus, Relay, Hot Sync, ViewUPS-X remote display), Hot Sync parallel tie cabinet, integrated manual bypass, external mainte- nance bypass switch |
| Communications | |
| | |

| Communications | |
|-----------------------|--------------------------|
| X-Slot | 2 communication bays |
| Serial ports | 1 available |
| Relay inputs/outputs | 2/1 programmable |
| Compliance with stand | ards |
| Safety (CB certified) | IEC 62040-1, IEC 60950-1 |
| EMC | IEC 62040-2 |
| Performance | IEC 62040-3 |
| | |

Stand-alone UPS with 1-phase input

| Stanu-alone OFS with I | -phase mput | | | | |
|------------------------|---------------------|----------------|--------------------|--------------------|--------|
| Part number | Description | Rating | Back-up (p.f. 0.7) | Dimensions (HxWxD) | Weight |
| 1022532 | 9155-8-S-10-32x7Ah | 8 kVA / 7.2 kW | 10 min | 817x305x702 mm | 155 kg |
| 1022533 | 9155-8-S-15-32x9Ah | 8 kVA / 7.2 kW | 15 min | 817x305x702 mm | 160 kg |
| 1022534 | 9155-8-S-28-64x7Ah | 8 kVA / 7.2 kW | 28 min | 1214x305x702 mm | 250 kg |
| 1022535 | 9155-8-S-33-64x9Ah | 8 kVA / 7.2 kW | 33 min | 1214x305x702 mm | 275 kg |
| 1022536 | 9155-10-S-10-32x9Ah | 10 kVA / 9 kW | 10 min | 817x305x702 mm | 160 kg |
| 1022537 | 9155-10-S-20-64x7Ah | 10 kVA / 9 kW | 20 min | 1214x305x702 mm | 250 kg |
| 1022538 | 9155-10-S-25-64x9Ah | 10 kVA / 9 kW | 25 min | 1214x305x702 mm | 275 kg |
| Stand-alone UPS with 3 | -phase input | | | | |
| Part number 9155/9355 | Description | Rating | Back-up (p.f. 0.7) | Dimensions (HxWxD) | Weight |
| 1022480 | 9155-8-N-10-32x7Ah | 8 kVA / 7.2 kW | 10 min | 817x305x702 mm | 155 kg |

| Fait number 5155/5555 | Description | nauliy | Баск-ир (р.т. 0.7) | DIIIIEIISIUIIS (HXVVXD) | vveigin |
|--------------------------|--------------------------|------------------|--------------------------|-------------------------|---------|
| 1022480 | 9155-8-N-10-32x7Ah | 8 kVA / 7.2 kW | 10 min | 817x305x702 mm | 155 kg |
| 1022481/1023411 | 9155/9355-8-N-15-32x9Ah | 8 kVA / 7.2 kW | 15 min | 817x305x702 mm | 160 kg |
| 1022482 | 9155-8-N-28-64x7Ah | 8 kVA / 7.2 kW | 28 min | 1214x305x702 mm | 250 kg |
| 1022483/1023412 | 9155/9355-8-N-33-64x9Ah | 8 kVA / 7.2 kW | 33 min | 1214x305x702 mm | 275 kg |
| 1022484/1023413 | 9155/9355-10-N-10-32x9Ah | 10 kVA / 9 kW | 10 min | 817x305x702 mm | 160 kg |
| 1022485 | 9155-10-N-20-64x7Ah | 10 kVA / 9 kW | 20 min | 1214x305x702 mm | 250 kg |
| 1022486/1023414 | 9155/9355-10-N-25-64x9Ah | 10 kVA / 9 kW | 25 min | 1214x305x702 mm | 275 kg |
| 1022487/1023415 | 9155/9355-12-N-8-32x9Ah | 12 kVA / 10.8 kW | 8 min | 817x305x702 mm | 160 kg |
| 1022488 | 9155-12-N-15-64x7Ah | 12 kVA / 10.8 kW | 15 min | 1214x305x702 mm | 250 kg |
| 1022489/1023416 | 9155/9355-12-N-20-64x9Ah | 12 kVA / 10.8 kW | 20 min | 1214x305x702 mm | 275 kg |
| 1022490/1023417 | 9155/9355-15-N-5-32x9Ah | 15 kVA / 13.5 kW | 5 min | 817x305x702 mm | 160 kg |
| 1022491 | 9155-15-N-10-64x7Ah | 15 kVA / 13.5 kW | 10 min | 1214x305x702 mm | 250 kg |
| 1022492/1023418 | 9155/9355-15-N-15-64x9Ah | 15 kVA / 13.5 kW | 15 min | 1214x305x702 mm | 275 kg |
| External battery cabinet | S | | | | |
| Part number | Description | Rating | Back-up (p.f. 0.7) | Dimensions (HxWxD) | Weight |
| 1022561 | 9X55-BAT5-64x7Ah | 2x32x7 Ah | Check technical specifi- | 817x305x699 mm | 195 kg |
| 1022562 | 9X55-BAT5-96x7Ah | 3x32x7 Ah | cations | 1214x305x699 mm | 310 kg |
| | | | | | |

TECHNICAL SPECIFICATIONS

| UPS output power rating (0. | 9 p.f.) | | | | |
|--|--|-------------|-------------------------|--|--|
| kVA | 20 | 30 | 40 | | |
| kW | 18 | 27 | 36 | | |
| General | | | | | |
| Efficiency in double- conversion mode (full load) | 93% | | | | |
| Efficiency in double conversion mode (half load) | 91% | | | | |
| Distributed parallelling with Hot Sync technology | 4 | | | | |
| Field upgradeable | yes | | | | |
| Inverter/rectifier topology | transf | former-fre | e IGBT with PWM | | |
| Audible noise | <50 d | В | | | |
| Altitude (max) | 1000 | m withou | t derating (max 2000 m) | | |
| Input | | | | | |
| Input wiring | 3 ph + | + N + PE | | | |
| Nominal voltage rating (configurable) | 220/3 | 80, 230/4 | 00, 240/415 V 50/60 Hz | | |
| Input voltage range | Low -20% at 100% load/-50% at 50% load witho battery discharge; High +10%/max +20% | | | | |
| Input frequency range | 45-65 | Hz | | | |
| Input power factor | 0.99 | | | | |
| Input ITHD | less t | han 4.5% | | | |
| Soft start capability | Yes | | | | |
| Internal backfeed protection | Yes | | | | |
| Output | | | | | |
| Output wiring | 1 ph c | or 3 ph + I | N + PE | | |
| Nominal voltage rating (configurable) | 220/3 | 80, 230/4 | 00, 240/415 V 50/60 Hz | | |

| Output UTHD | <3% (100% linear load); <5% (reference non- linear load) | | | | |
|--|--|--|--|--|--|
| Output power factor | 0,9 (e.g. 27 kW at 30 kVA) | | | | |
| Permitted load power factor | 0,7 lagging - 0,8 leading | | | | |
| Overload on inverter | 10 min 100-110%; 1 min 110-125%; 5 sec 125-150%; 300 ms >150% | | | | |
| Overload when bypass avail- able | 60 min 100-110%, 10 min 110-125%; 1 min >125- 150% | | | | |
| Battery | | | | | |
| Туре | Maintenance-free VRLA batteries, NiCd | | | | |
| Charging method | ABM technology or Float | | | | |
| Temperature compensation | Optional | | | | |
| Battery nominal voltage (lead-acid) | 432 V (36x12 V, 216 cells) | | | | |
| Charging current / Model | Default 3 A *Max 60 A | | | | |
| *May be limited by maximum UPS | b input current rating | | | | |
| Accessories | | | | | |
| | Isolation transformer, long-life batteries, external battery cabinets, X-Slot connectivity (Web/SNMP, ModBus/Jbus, Relay, Hot Sync, ViewUPS-X remote display), Hot Sync parallel tie cabinet, integrated manual bypass, external maintenance bypass switch | | | | |
| Communications | | | | | |
| X-Slot | 2 communication bays | | | | |
| Serial ports | 1 available | | | | |
| Relay inputs/outputs | 2/1 programmable | | | | |
| Compliance with standard | S | | | | |
| Safety (CB certified) | IEC 62040-1, IEC 60950-1 | | | | |
| EMC | IEC 62040-2 | | | | |
| Performance | IEC 62040-3 | | | | |
| | | | | | |

Standard UPS with 3-phase input

| Part number 9355 | Description | Rating | Runtime (p.f 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

| Part number | Description | Rating | Dimensions (HxWxD) | Weight |
|-------------|--------------------------|------------|--------------------|--------|
| 1025169 | 9355-BAT-1x24Ah (30 kVA) | 1x36x24 Ah | 1684x494x758 mm | 510 kg |
| 1025170 | 9355-BAT-2x24Ah (30 kVA) | 2x36x24 Ah | 1684x494x758 mm | 870 kg |

9355 20-40 kVA runtimes

| Runtimes for UPS with internal batteries, p.f. 0.7 (typical IT server/computer loa |
|--|
|--|

| | | | (.)p.oa. | | pater reau, | | | | | |
|-----------|--------|-----|----------|----|-------------|----|----|----|----|-----|
| 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 |
| 9 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 |
| | | | | | | | | | | |

For assistance with your power quality needs, contact your local Eaton service and sales representatives.

www.eaton.eu



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