

Eaton 5PX 1500-3000VA 230V UPS Technical Specification

CONSTRUCTION					
UPS Model	5PX1500iRT	5PX2000iRT	5PX2200iRT	5PX3000iRT2U	5PX3000iRT3U
Rating	1500VA	2000VA	2200VA	3000VA	3000VA
Technology	Line interactive				
Cabinet Configuration	Rack/Tower convertible				
UPS Dimensions: (mm) HxWxD / Rack Configuration	86.2x441x522 2RU High	86.2x441x522 2RU High	86.2x441x522 2RU High	86.2x441x647 2RU High	131x441x497 3RU High
Weight (kg)	27.6	28.5	28.5	38.0	37.3
EBM Model	5PXEBM48RT		5PXEBM72RT2U		5PXEBM72RT3U
Rating	48VDC		72VDC		72VDC
Cabinet Configuration	Rack/Tower convertible				
EBM Dimensions: (mm) HxWxD / Rack Unit Height	86.2x441x522, 2RU High		86.2x441x647, 2RU High		131x441x497, 3RU High
Weight (kg)	32.8		46.4		44.4
ENVIRONMENTAL & SAFETY					
Ambient storage temperature	-15°C to + 50°C				
Ambient service temperature	0°C to +40°C				
Maximum service altitude	Up to 3000m above sea level without de-rating				
Relative humidity	20 to 90%, without condensation				
Degree of protection	IP20 (EN60529)				
Acoustic Noise	1500-2200VA: <45dBA, 3000VA: <50dBA				
Surge Suppression	ANSI C62.41 Category A, (formerly IEEE 587)				
Safety Conformance	EN 50091-1-1, IEC 60950;				
EMC Compliance	EN 62040-2 C1, AS 62040-2 C1				
Agency Markings	CE TUV, cUL, UL, C-Tick				
POWER CONNECTIONS					
Input	1500-2000VA: IEC C14-10A, 2200-3000VA: IEC C20-16A				
Output	1500-2000VA: 8 x IEC C13-10A 2200-3000VA: 1 x IEC C19-16A & 8 x IEC C13-10 (Two groups of controlled & measured outlets)				
USER INTERFACE					
Display	<p>High Intensity LED indicators: Power On Indicator - Green LED On Battery Indicator – Yellow LED Alarm Indicator – Red LED</p> <p>Graphical back-lit LCD: Normal mode indication / AVR mode indication On Battery Mode Indication / End of Battery Time Indicator</p> <p>Measurements: Load W ,VA, A, PF / Output V, Hz / Input V, Hz / Battery V, min. / Efficiency / Power usage</p> <p>Control: Load Segments On/Off / Start Battery Test / Reset Fault State / Restore Factory Settings / Reset Power Usage</p> <p>Settings: Local Settings / Input/Output Settings / On/Off Settings / Battery Settings</p> <p>Fault Log, System Identification</p>				
Communications	1 x USB (HID), 1x RS232 (RJ45), 1 x Remote Power Control terminal, 1 x Mini-Slot Port (Empty)				
Optional	Mini Slot cards; Web/SNMP, Relay				

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ELECTRICAL CHARACTERISTICS – INPUT

Nominal input voltage	230V Single Phase (default), 200, 208, 220, 240 Vac (selectable)
Rated input voltage tolerance	Low Voltage Transfer to Battery: Factory set 160Vac Adjustable to 150Vac in extended mode (programmable using UPS settings) High Voltage Transfer to Battery: 294Vac
Operating Frequency & Tolerance	47 to 70 Hz (50 Hz system), 56.5 to 70 Hz (60 Hz system) Up to 40 Hz in low -sensitivity mode (programmable using UPS settings)
UPS Input Current (full load)	1500VA: 6.5A @ 230V, 2000VA: 8.7A @ 230V 2200VA: 9.6A @ 230V, 3000VA: 13.0A @ 230V

ELECTRICAL CHARACTERISTICS – OUTPUT

Rated apparent/active power	1500VA / 1350W, 2000VA / 1800W 2200VA / 1980W, 3000VA / 2700W
Waveform	Sine Wave
Rated output voltage	230V Single Phase (default), 200, 208, 220, 240 Vac (selectable)* *15% derating at 200V on 2kVA, 23% derating at 200 V & 10% derating at 208 V on 2.2 kVA, 17% derating at 200 V on 3 kVA
Output voltage variation	230V +6/-10%
Crest factor	3:1
Rated output frequency	50Hz or 60Hz Auto Sensing
Output frequency regulation	±0.1Hz (on battery)
Number of output phases	1 Phase

EFFICIENCY (Input/Output)

Normal mode	>94% (up to 99%)
Line Mode	>94%

BATTERY

Battery Management	Advanced Battery Management (ABM [®]) = 90% resting, 10% floating/charging Weekly automatic battery test (selectable daily, weekly or monthly)				
Battery Nominal Voltage	1500-2200VA: 48V (24 Cells) 3000VA: 72V (36 Cells)				
Battery Re-charge time	Six (6) hours to recover 90 percent of nominal backup time after 100 percent load discharge				
UPS Battery Configuration	1500VA: (4) 12V, 7.2Ah internal batteries 2000VA: (4) 12V, 9.0Ah internal batteries 2200VA: (4) 12V, 9.0Ah internal batteries 3000VA: (6) 12V, 9.0Ah internal batteries Valve Regulated Lead Acid, AGM				
EBM Configuration	5PXEBM48RT, 1500-2200VA: (2 strings of 4) 12V, 9.0Ah 5PXEBM72RT2U, 3000VA: (2 strings of 6) 12V, 9.0Ah 5PXEBM72RT3U, 3000VA: (2 strings of 6) 12V, 9.0Ah				
Battery Replacement	Hot-swappable internal and external batteries				
Battery Run Times Minutes @ Half/Full load	Internal Batts	+ 1 EBM	+ 2 EBMs	+ 3 EBMs	+ 4 EBMs
5PX1500iRT	12/4	58/24	103/47	147/69	192/91
5PX2000iRT	9/3.5	42/18	77/33	113/49	149/65
5PX2200iRT	8.5/3	38/15	70/28	103/42	135/55
5PX3000iRT2U	10/3.5	40/19	73/35	106/52	139/68
5PX3000iRT3U	10/3.5	40/19	73/35	106/52	139/68

NOTE: Battery times are approximate and vary depending on age, temperature, load configuration and battery charge.