

Specifications

Eaton 5PX G2 UPS Technical Specifications (1000-3000 VA 2U & 3U models)

Model overview

Catalog number	Power rating (VA/watts)	Input connection	Output receptacles	Dimensions (HxWxD, in.)	Weight (lbs.)
120V output, 50/60 Hz					
5PX1000RTG2	1000 / 1000	5-15P, 10 ft.	(8) 5-15R	3.4 (2U) x 17.2 x 17.6	44.5
5PX1500RTG2	1440 / 1440	5-15P, 10 ft.	(8) 5-15R	3.4 (2U) x 17.2 x 17.6	50.7
5PX2000RTG2	1950 / 1950	5-20P, 10 ft.	(6) 5-20R, (1) L5-20R	3.4 (2U) x 17.2 x 23.7	65.3
5PX3000RTG2	3000 / 3000	5-20P, 10 ft.	(6) 5-20R, (1) L5-20R	3.4 (2U) x 17.2 x 23.7	74.5
120V output, 50/60 Hz Network Bundles - Contains Pre-installed Gigabit Network card (Network-M2)					
5PX1000RTNG2	1000 / 1000	5-15P, 10 ft.	(8) 5-15R	3.4 (2U) x 17.2 x 17.6	44.5
5PX1500RTNG2	1440 / 1440	5-15P, 10 ft.	(8) 5-15R	3.4 (2U) x 17.2 x 17.6	50.7
5PX2000RTNG2	1950 / 1950	5-20P, 10 ft.	(6) 5-20R, (1) L5-20R	3.4 (2U) x 17.2 x 23.7	65.3
5PX2000RT3UNG2	1950 / 1950	5-20P, 10 ft.	(6) 5-20R, (1) L5-20R	5.1 (3U) x 17.2 x 19.0	64.2
5PX3000RTNG2	3000 / 3000	L5-30P, 10 ft.	(6) 5-20R, (1) L5-30R	3.4 (2U) x 17.2 x 23.7	74.5
5PX3000RT3UNG2	3000 / 3000	L5-30P, 10 ft.	(6) 5-20R, (1) L5-30R	5.1 (3U) x 17.2 x 19.0	72.8
208V/230V output global models, 50/60 Hz					
5PX1500HRTG2	1500 / 1500	C14	(8) C13	3.4 (2U) x 17.2 x 17.6	49.4
5PX2200HRTG2	2200 / 2200	C20 / L6-20P ¹	(8) C13, (2) C19	3.4 (2U) x 17.2 x 23.7	62.2
5PX3000HRTG2	3000 / 3000	C20 / L6-20P ¹	(8) C13, (2) C19	3.4 (2U) x 17.2 x 23.7	69.9
5PX3000HRTNG2	3000 / 3000	C20 / L6-20P ¹	(8) C13, (2) C19	3.4 (2U) x 17.2 x 23.7	69.9
5PX G2 Extended Battery Modules (EBM)					
5PXEBM48RTG2	1500 watts	DC connector	DC connector	3.4 (2U) x 17.2 x 17.6	61.3
5PXEBM72RTG2	3000 watts	DC connector	DC connector	3.4 (2U) x 17.2 x 23.7	89.1
5PXEBM72RT3UAG2	3000 watts	DC connector	DC connector	3.4 (3U) x 17.2 x 19.0	87.5

¹Detachable L6-20P to C19 input cable included (6 ft.)

Additional specifications

General	
Topology	Line-interactive
Configuration	Rack/tower
Color	Black and silver
Diagnostics	Full system self-test at power up
Power management	RS-232 DB9, USB-B port (HID compliant) and 3-pin user configurable output relay (dry contact) standard Compatible with optional mini-slot communication cards (hot-swappable): NETWORK-M2 / INDGW-M2 / RELAY-MS "RTN" models come with a pre-installed Gigabit Network Card (NETWORK-M2)
Remote power off	4-pin terminal block for Remote On/Off (ROO) and Remote Power Off (RPO) signals
Warranty	3-year warranty on the UPS electronics and batteries
Rail kit	4-post standard rail kit included* Optional: 2-post rail kit available, PN: 103007018-5591 (2U UPS or EBMs only) Optional: 4-post ship-in-rack rail kit available, PN: RK4PRS (Solution tested to ISTA-3E)

*Each 5PX G2 UPS and EBM ships with a standard 4-post rail kit.

Additional specifications

General (cont.)		
Standard UPS package contents	UPS Tower pedestal feet 4-post rail kit Quick start guide Safety guide	USB cable RS-232 DB-9 cable (2) IEC C13 to IEC C14 jumper cables (200-240 V “H” models only)
Electrical input	208 V (200-240 V capable)	120 V (100-125 V capable)
Nominal voltage	208 V default (200/208/220/230/240 V)	120 V default (100/110/120/125 V)
Input voltage range	Normal mode: 160-294 V at 100% load Extended mode: 150-294 V at <93% load Normal mode line OK (208 V): 160-266 V Extended mode line OK (208 V): 150-294 V	Normal mode: 80-151 V at 100% load Extended mode: 70-153 V at <87% load Normal mode line OK (120 V): 89-151 V Extended mode line OK (120 V): 70-153 V
Frequency	50/60 Hz (auto-sensing)	
Frequency range	Normal Mode: 60 Hz setting: 57–70 Hz 50 Hz setting: 46–70 Hz Extended Mode: 50 or 60 Hz setting: 40-70 Hz	
Input power factor	Load-dependent due to line-interactive design	
Input current distortion	Load-dependent due to line-interactive design	
Recommended upstream circuit protection breaker	1500 VA: 20 A, C or D curve 2200 VA: 20 A, C or D curve 3000 VA: 20 A, C or D curve	1000 VA: 20 A, C or D curve 1500 VA: 20 A, C or D curve 2000 VA: 20 A, C or D curve 3000 VA: 30 A, C or D curve
Electrical output	208 V (200-240 V capable)	120 V (100-125 V capable)
Nominal output voltage (set by nominal input voltage setting)	208 V default (200/208/220/230/240 V)	120 V default (100/110/120/125 V)
Output voltage regulation	Normal mode: +15%, -20% Extended mode: +15%, -25%	Normal mode: +15%, -25% Extended mode: +15%, -33%
Voltage THD	Line mode: similar to utility unless out of tolerance Battery mode 1-1.5 kVA: <5% linear load, <10% non-linear load Battery mode 2-3 kVA: <10% linear load, <27% non-linear load	
Efficiency	up to 98% line mode (EnergyStar 2.0)	up to 98% line mode (EnergyStar 2.0 and DOE compliant)
Transfer time	<10 ms typical (default high-sensitivity mode)	
Circuit breaker	1500VA: None 2200VA: None 3000VA: None	1500VA: None 2000VA: None 3000VA: (3) 20A for each bank of (2) 5-15/20R outlets (Group 1, Group 2, Primary)
Battery		
Optional extended battery module (EBM)	5PXEBM48RTG2: 1500 VA 2U models 5PXEBM72RTG2: 2000-3000 VA 2U models 5PXEBM72RT3UAG2: 2000-3000 VA 3U models	
Maximum number of EBMs	Add up to 4 EBMs	
Battery type	Valve-regulated Lead Acid, Absorbent Glass Mat (VRLA AGM)	
Battery management	Advanced Battery Management (ABM) increases battery life up to 50% over standard float charging methods	
Battery replacement	Hot-swappable internal batteries and EBMs by qualified service personnel	
Start on battery	Cold-start enabled; first cold start is always forbidden	
Communication		
User interface	Graphical LCD display – UPS status in a single view	
LED Status indicators	3 status-indicating LEDs (normal, battery mode, alarm) LED light bar (blue = nominal, blinking blue = warning, red = alarm) for easy status identification	

Communication (cont.)		
Power management (Communication ports)	RS-232 DB9, USB-B port (HID compliant) and 3-pin user configurable output relay (dry contact) standard Compatible with optional mini-slot communication cards (hot-swappable): NETWORK-M2 / INDGW-M2 / RELAY-MS / INDRELAY-MS “RTN” models come with a pre-installed Gigabit Network Card (NETWORK-M2)	
Power management software	Integrates with Eaton Intelligent Power Manager (IPM), Visual Power Manager (VPM), Visual Capacity Optimization Manger (VCOM), and future platforms	
Environmental & standards		
RoHS compliant	Yes	
Surge protection	175 J (each mode) 200-240 V models (meets IEC 62040-2)	380 J (each mode) 120 V models (meets IEEE C62.41, Cat. B & IEC 62040-2)
Label markings and safety conformance	cULus / CE / EnergyStar 2.0 NOM (5PX2200HRTG2)	cULus / CE / EnergyStar 2.0 / NOM UKCA or BSMI (select models)
Maximum heat dissipation (BTU)	1000 VA: Online: 68, Battery: 423 1440 VA: Online:106, Battery: 699 1500 VA: Online: 106, Battery: 699	1950 VA: Online:154, Battery: 744 2200 VA: Online: 154, Battery: 744 3000 VA: Online: 208, Battery: 1136
Audible noise (at 1 meter)	Line mode: <40dB Buck/boost mode:<45 dB battery Mode: <45dB, 50dB for 3K Fan turns off when fully charged with <30% load in normal/line mode to reduce noise	
Operating temperature	0 to 40 °C (32 °F to 104 °F)	
Operating altitude	Up to 3,000 meters (9,843 ft) at 0 - 40°C (32 °F to 104 °F)	
Transit altitude	Up to 10,000 m (32,808 ft) above sea level	
Storage temperature	-15 to 50 °C (5 °F to 122 °F) without batteries 0 to 50 °C (32 °F to 122 °F) with batteries	
Relative humidity	Operating: 20 to 90% non-condensing Storage: 10 to 90% non-condensing	

For interactive runtime graphs, please see www.eaton.com/5PXG2 and click on the model of your choice.

Due to continuing product improvement programs, specifications are subject to change without notice.