

Eaton 9PX6K-L Lithium-ion UPS technical specifications (6000VA 3U model)

Model overview

Catalog Number	Power rating (VA/watts)	Input connection	Output receptacles	Dimensions (HxWxD, in.) ²	Weight (lb.)
208V default output, 50/60 Hz					
9PX6K-L	6000/5400	Hardwire, L6-30P	Hardwire, (2) L6-30R, (2) L6-20R	5.12*17.33*28.43	81.2

Additional specifications

General	
Topology	Double-conversion, online
Configuration	Rack/tower
Color	Black and silver
Diagnostics	Full system self-test at power up
Warranty	5 years electronics and battery
Rail kit	4-post rail kit included; Max length: 30.0in, Min length: 17.4in Tower pedestals included <i>Optional 2-post rail kit available, part number: RK2PC</i>
Remote power off	Remote On/Off (ROO) and Remote Power Off (RPO) rear terminal blocks
Contents (Ships with the following items)	UPS Network-M2 Card 4-post rail kit Quick start guide Safety Instruction Cable gland Tower pedestals RS-232 serial cable USB cable Data cable

Notes:

1. Due to continuing product improvement programs, specifications are subject to change without notice.
2. Each 9PX and EBM ships with a 4-post rail kit.
3. Input line cord is 10 feet long.
4. Model derated at lower voltages due to input cord limitations. See Power ratings table below for further details.

Electrical input	
Nominal voltage	208V default (200/208/220/230/240V)
Input voltage range	Full load: 176-276V, Linear derating from 176V at full load to 110V at 40% load
Frequency	50/60 Hz
Frequency range	60 Hz: 50–70 Hz, 50 Hz: 40–60 Hz
Input power factor	≥.99
Input current distortion	<5% (unless in frequency converter mode)
Circuit breaker	None

Electrical output	
Power ratings	9PX6K-L 200V: 5200VA / 4600W / 0.88 208V: 5400VA / 4800W / 0.89 220V: 5700VA / 5100W / 0.89 230V: 6000VA / 5300W / 0.88
Nominal voltage	208V default (200/208/220/230/240V)
Output voltage regulation, steady state	±1% normal mode
Voltage THD (online)	Linear: <2% Non-linear: <5%
Power factor	0.9
Efficiency	93% online mode 90% battery mode 98% high efficiency mode
Transfer time	0 ms
Battery	
Optional extended battery module (EBM)	9PXEBM192RT-L: 2U Form Factor
Maximum number of EBMs	Add up to 4 EBMs
Battery description	Lithium Ion, LiFePO4 chemistry
Battery management	BMS: Advanced battery management with health monitoring and prediction features
Battery replacement	Hot-swappable internal batteries and EBMs
Start on battery	Cold-start enabled; first cold start is always forbidden
Communications	
User interface	Graphical display. UPS status in a single view.
LEDs	4 status-indicating LEDs
Communication ports	RS-232 (DB9) port, USB 2.0, RJ45, RPO, ROO. RS-232 and USB cables included
Communications card	Network-M2 card included
Power management software	Integrates with Eaton Intelligent Power Manager software
Environmental & standards	
RoHS compliance	Yes
EMC markings	EN 62040-2:2006 / EN IEC 62040-2:2018 / IEC 62040-2: 2016 Cat C2 / CISPR32 Class A / FCC part 15 Class A
Audible noise	≤45 dB at 1 meter
Heat dissipation (BTU)	Online: 1233 BTU/hr; Battery: 1699 BTU/hr (100% load, with 0 to 4 EBMs)
Operating temperature	0 to 40°C (32°F to 104°F)
Safety conformance	CE / cULus / NOM
Storage temperature	0 to 40°C (32 to 104°F) with batteries; -15 to 60°C (5 to 140°F) without batteries
Operating altitude	Up to 3,000 meters (9,843 ft.) above sea level with 10% derating per 1000m
Relative humidity	0 to 95% non-condensing

9PX Li-ion 6kVA estimated battery backup times (in minutes)

Load (Watts)	Internal Batteries	+1 EBM	+2 EBMs	+3 EBMs	+4 EBMs
9PX6K-L					
5400	8.7	29.8	49.7	69.6	89.5
4050	11.7	40	66.6	93.3	119.9
2700	17.4	59.6	99.3	139.0	178.7
1350	33.2	114	190	265.9	341.9