

Eaton 9PX G2 UPS technical specifications (5 and 6 kVA models)

Model overview

Catalog number	Power rating (VA/watts at 240V)	Input	Output	Dimensions (HxWxD, in.)	Weight (lb.)
200V – 240V output, 50/60 Hz					
9PX5KG2	5000/5000 ²	10ft. L6-30P, hardwired	(2) L6-30R, (2) L6-20R, hardwired	5.1 (3U) x 17.3 x 27	98.4
9PX6KG2	6000/5400 ³	10ft. L6-30P, hardwired	(2) L6-30R, (2) L6-20R, hardwired	5.1 (3U) x 17.3 x 27	98.4
9PX6KIECG2	6000/5400 ³	10ft. L6-30P, hardwired	(6) C13, (6) C39 (accepts C14 and C20 plug)	5.1 (3U) x 17.3 x 27	98.4
100V – 240V output, 50/60 Hz bundles					
9PX5KTF5G2 ¹	5000/5000 ²	10ft. L6-30P, hardwired	(1) L6-30R, (2) L6-20R, (18) 5-20R	10.2 (6U) x 17.3 x 27	194
9PX5KP1G2	5000/5000 ²	6.5ft. L6-30P	(1) L14-30R, (1) L6-30R, (6) 5-20R	10.2 (6U) x 17.3 x 27	196
9PX5KP2G2	5000/5000 ²	Hardwired	Hardwired	10.2 (6U) x 17.3 x 27	194
9PX6KTF5G2 ¹	6000/5400 ³	10ft. L6-30P, hardwired	(1) L6-30R, (2) L6-20R, (18) 5-20R	10.2 (6U) x 17.3 x 27	194
9PX6KP1G2	6000/5400 ³	6.5ft. L6-30P	(1) L14-30R, (1) L6-30R, (6) 5-20R	10.2 (6U) x 17.3 x 27	196
9PX6KP2G2	6000/5400 ³	Hardwired	Hardwired	10.2 (6U) x 17.3 x 27	194

1. Bundles with 9PXTFMR5G2 have output frequency of 60 Hz only.
2. 5000W output at 220-240V. De-rated to 4800W output at 208V. See power ratings on page 3.
3. 5400W output at 240V with UPS L6-30P input cable. De-rated to 4800W output at 208V with L6-30P. See power ratings on page 3.

Battery backup times (in minutes)*

Model Name	Internal battery + EBM quantity	Output Power (W)	5%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
9PX5KG2 9PX5KP1G2 9PX5KP2G2 9PX5KTF5G2	Internal	5000	132.0	67.1	30.4	18.9	12.9	9.4	7.1	6.0	4.9	4.1	3.5
	Internal +1*EBM	5000	442.5	229.7	113.3	73.0	52.2	39.6	31.4	26.7	22.4	19.1	16.5
	Internal +2*EBM	5000	803.5	405.3	200.1	131.1	95.4	73.7	59.5	50.3	42.8	36.9	32.3
	Internal +3*EBM	5000	>1200	595.8	290.1	190.6	139.5	108.7	88.4	75.0	64.1	55.6	48.9
	Internal +4*EBM	5000	>1200	802.9	383.9	251.6	184.5	144.2	117.7	100.2	85.9	74.8	66.0
	Internal +5*EBM	5000	>1200	1027.2	481.8	314.4	230.3	180.2	147.4	125.9	108.2	94.4	83.4
	Internal +6*EBM	5000	>1200	>1200	584.2	378.9	277.1	216.7	177.5	151.9	130.7	114.2	101.1
	Internal +7*EBM	5000	>1200	>1200	691.2	445.4	324.8	253.9	207.9	178.3	153.5	134.2	119.0
	Internal +8*EBM	5000	>1200	>1200	802.9	513.8	373.7	291.7	238.8	205.1	176.6	154.5	137.0
	Internal +9*EBM	5000	>1200	>1200	919.4	584.2	423.5	330.1	270.1	232.2	200.0	175.0	155.3
	Internal +10*EBM	5000	>1200	>1200	1041.0	656.7	474.5	369.2	301.8	259.6	223.6	195.7	173.7
	Internal +11*EBM	5000	>1200	>1200	1167.5	731.2	526.7	409.0	334.0	287.3	247.5	216.6	192.2
	Internal +12*EBM	5000	>1200	>1200	>1200	807.9	580.0	449.5	366.6	315.4	271.6	237.7	211.0

Model Name	Internal battery + EBM quantity	Output Power (W)	5%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
9PX6KG2 9PX6KIECG2 9PX6KP1G2 9PX6KP2G2 9PX6KTF5G2	Internal	5400	121.4	61.2	27.3	17.0	11.5	8.3	6.3	5.4	4.4	3.6	3.0
	Internal +1*EBM	5400	406.8	210.9	103.3	66.5	47.2	35.8	28.2	24.0	20.1	17.1	14.7
	Internal +2*EBM	5400	734.9	371.4	183.0	119.9	86.9	67.2	54.0	45.6	38.7	33.3	29.0
	Internal +3*EBM	5400	1110.7	544.5	265.2	174.6	127.4	99.3	80.5	68.2	58.1	50.3	44.2
	Internal +4*EBM	5400	>1200	731.4	350.5	230.5	168.7	132.0	107.5	91.3	78.1	67.9	59.8
	Internal +5*EBM	5400	>1200	932.9	439.3	287.9	210.6	165.1	134.8	114.8	98.5	85.8	75.7
	Internal +6*EBM	5400	>1200	1149.6	531.7	346.8	253.3	198.6	162.4	138.7	119.1	103.9	91.8
	Internal +7*EBM	5400	>1200	>1200	628.0	407.2	296.9	232.6	190.3	162.8	139.9	122.2	108.1
	Internal +8*EBM	5400	>1200	>1200	728.2	469.3	341.3	267.2	218.5	187.3	161.1	140.8	124.6
	Internal +9*EBM	5400	>1200	>1200	832.5	533.1	386.6	302.3	247.1	212.0	182.4	159.5	141.3
	Internal +10*EBM	5400	>1200	>1200	941.0	598.6	432.9	338.0	276.1	237.1	204.0	178.4	158.1
	Internal +11*EBM	5400	>1200	>1200	1053.7	665.9	480.1	374.2	305.5	262.4	225.7	197.4	175.0
	Internal +12*EBM	5400	>1200	>1200	1170.7	734.9	528.2	411.0	335.2	288.0	247.7	216.7	192.1

*Approximate runtimes are shown at full load with maximum power factor using L6-30P input and may vary with equipment, configuration, battery age, temperature, etc. View interactive runtime graphs at www.eaton.com/9PX.

Additional specifications

General	
Topology	Double-conversion online
Configuration	Rack/tower
Color	Black and silver
Diagnostics	Full system self-test at power up
Warranty	3 years
Rail kit	4-post rail kit and tower pedestals included; Optional 2-post rail kit available, part number RK2PC
Remote emergency power off (REPO)	ROO and RPO: Rear deck emergency stop connectors (for remote on/off and power off)
Package contents	UPS Pre-installed NETWORK-M3 card 4-post rail kit Tower pedestals Quick start guide RS-232 serial cable USB cable Cable gland for hardwire connection
Electrical input	
Input voltage range	Full load: 176-276V, Derating: 100-276V
Nominal voltage	200/208/220/230/240V
Default voltage	208V
Frequency	50/60 Hz
Frequency range	60 Hz: 50–70 Hz, 50 Hz: 40–60 Hz
Input power factor	>.99
Input current distortion (THDI)	<3% (linear load), <5% (non-linear load)
Recommended input circuit breaker	30A (5kVA; 6kVA with L6-30P); 40A (6kVA hardwired)

Electrical output	
Power ratings NEMA 5kVA	240/230/220V: 5000 watts 208V: 4800 watts 200V: 4600 watts
Power ratings NEMA and IEC 6kVA	200V - 240V: 6000 watts (hardwired UPS input) 240V: 5400 watts (L6-30P input) 230V: 5300 watts (L6-30P input) 220V: 5100 watts (L6-30P input) 208V: 4800 watts (L6-30P input) 200V: 4600 watts (L6-30P input)
Nominal voltage	208V default (200/208/220/230/240V)
Output voltage regulation	±1% steady-state
Voltage THD	<1% (linear load)
Power factor	1.0 (5kVA at 220V-240V), 1.0 (6kVA hardwired), 0.9 (6kVA at 240V L6-30P)
Efficiency	96.5% (online mode), 99% (high efficiency mode), 94% (battery mode)
Transfer time	0 ms
Battery	
Optional extended battery module (EBM)	9PXEBM180RTG2
Maximum number of EBMs	Add up to 12 EBMs
Battery description	Sealed, lead-acid; maintenance free
Battery management	ABM+ technology: Predictive battery replacement analytics alerts users of an estimated two months of remaining battery life, while optimizing charging to increase battery lifespan up to 50%
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	Status-indicating LED bar
Communication ports	RS-232 (RJ45) ports; USB port as standard (HID). 6-foot RS-232 and USB cables included
Communications card slot	NETWORK-M3 card included
Power management software	Brightlayer software suites
Environmental & standards	
RoHS compliance	Yes
Surge protection	IEEE ANSI C62.41 Cat B2
Heat dissipation (BTU/hr; battery full charged, resistive load)	5kVA: Online: 655; High efficiency: 190; Battery: 935 6kVA: Online: 767; High efficiency: 205; Battery: 1155
Audible noise	<42 dB at 1 meter (online mode, <87°F)
Operating temperature	0 to 40°C (32°F to 104°F)
Safety conformance	CE / cULus / NOM / EAC / Cm / Ukr / RCM / Energy Star
EMC markings	IEC 62040-2:2016 / CISPR22 Class A / FCC part 15 Class A
Storage temperature	0 to 40°C (32°F to 104°F); without batteries: -25 to 55°C (-13°F to 131°F)
Relative humidity	0 to 95% non-condensing
Altitude	up to 3000 meters

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