

Eaton 9PX UPS technical specifications (700-3000 VA 2U models¹)

Model overview

Catalog number	Power rating (VA/watts)	Input connection	Output receptacles	Dimensions (HxWxD, in.) ²	Weight (lb.)
120V output, 50/60 Hz					
9PX700RT	700/630	5-15P ³	(8) 5-15R	3.4 (2U) x 17.3 x 17.7	36.4
9PX1000RT	1000/900	5-15P ³	(8) 5-15R	3.4 (2U) x 17.3 x 17.7	36.4
9PX1500RT	1500/1350	5-15P ³	(8) 5-15R	3.4 (2U) x 17.3 x 17.7	42.5
9PX1500RTN	1500/1350	5-15P ³	(8) 5-15R	3.4 (2U) x 17.3 x 17.7	42.5
9PX2000RT	2000/1800 ⁵	5-20P ³	(6) 5-20R, (1) L5-20R	3.4 (2U) x 17.3 x 23.8	61.5
9PX2000RTN	2000/1800 ⁵	5-20P ³	(6) 5-20R, (1) L5-20R	3.4 (2U) x 17.3 x 23.8	61.5
9PX3000RT	3000/2700 ⁵	L5-30P ³	(6) 5-20R, (1) L5-30R	3.4 (2U) x 17.3 x 23.8	63.1
9PX3000RTN	3000/2700 ⁵	L5-30P ³	(6) 5-20R, (1) L5-30R	3.4 (2U) x 17.3 x 23.8	63.1
208V output, 50/60 Hz bundles					
9PX1000GRT	1000/900	C14	(8) C13	3.4 (2U) x 17.3 x 17.7	38.6
9PX1500GRT	1500/1350 ⁴	C14	(8) C13	3.4 (2U) x 17.3 x 17.7	41.4
9PX2200GRT	2200/2000 ⁵	C20 / L6-20P ⁵	(8) C13, (2) C19	3.4 (2U) x 17.3 x 23.8	60.4
9PX3000GRT	3000/3000 ⁶	C20 / L6-20P ⁴	(8) C13, (2) C19	3.4 (2U) x 17.3 x 23.8	60.4
9PX3000GLRT	3000/3000 ⁵	C20 / L6-20P ⁴	(1) L6-30R, (2) L6-20R	3.4 (2U) x 17.3 x 23.8	60.4

Additional specifications

General	
Topology	Double-conversion, online
Configuration	Rack/tower
Color	Black and silver
Diagnostics	Full system self-test at power up, ABM test every 30 days
Warranty	3 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: 103007018-5591</i>
Remote power off	Remote On/Off (ROO) and Remote Power Off (RPO) rear terminal blocks
Contents (Ships with the following items)	UPS 4-post rail kit Safety manual User manual Output cables (for G models) Input cables (for G models) Cable lockers (for G models) Tower pedestals RS-232 serial cable USB cable

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 8 feet long.
4. 1500 VA Global model wattage: 200V, 208V: input limited to 1350 watts; 220V, 230V, 240V: 1500 watts
5. C19 to L6-20P input cord is 6 feet long.
6. Models derated at lower voltages due to input cord limitations. See Power ratings table below for further details.

	Communication card (optional)	
Electrical input	208V	120V
Nominal voltage	208V default (200/208/220/230/240V)	120V default (100/110/120/125V)
Input voltage range	Full load: 176-276V, ≤40% load: 100-276V	Full load: 100-144V, ≤30% load: 60-144V
Frequency	50/60 Hz	
Frequency range	60 Hz: 50–70 Hz, 50 Hz: 40–60 Hz	
Input power factor	≥.99	
Input current distortion	≤5% (≤10% frequency converter mode)	
Circuit breaker	2200VA: None 3000VA: None	2000VA: None 3000VA: (3) 20A for (2) 5-20R each
Electrical output	208V	120V
Power ratings	9PX1000GRT: 1000VA / 900W 9PX1500GRT 220/230/240V: 1500VA / 1500W 200/208V: 1350 9PX2200GRT: 220/230/240V: 2200VA / 2200W 208/200V: 2200VA / 2000W 9PX3000GRT & 9PX3000GLRT: 220/230/240V: 3000VA / 3000W 208/200V: 3000VA / 2700W	9PX700RT: 700VA / 630W 9PX1000RT: 1000VA / 900W 9PX1500RT 120/125V: 1500VA / 1350W 110V: 1350VA / 1215W 100V: 1200VA / 1080W 9PX2000RT: 120/125V: 2000VA / 1800W 110V: 1800VA / 1620W 100V: 1600VA / 1440W 9PX3000RT: 120/125V: 3000VA / 2700W 110V: 2700VA / 2430W 100V: 2400VA / 2160W
Nominal voltage	208V default (200/208/220/230/240V)	120V default (100/110/120/125V)
Output voltage regulation, steady state	±1% normal mode ±2% battery mode	
Voltage THD (online)	Linear: 3% Non-linear: 5%	
Power factor	0.9	
Efficiency	9PX1000GRT: 90% online 9PX1500GRT: 91% online 9PX2200GRT: 93% online 9PX3000GRT: 93% online 9PX3000GLRT: 93% online	9PX700RT: 89.9% online 9PX1000RT: 90% online 9PX1500RT: 90% online 9PX2000RT: 91% online 9PX3000RT: 91% online
Transfer time	0 ms	
Battery		
Optional extended battery module (EBM)	9PXEBM36RT : 700/1000 VA models 9PXEBM48RT : 1500 VA models 9PXEBM72RT : 2000-3000 models	
Maximum number of EBMs	Add up to 4 EBMs	
Battery description	Sealed, lead-acid; maintenance free	
Battery management	ABM technology ; 3-stage charging extends battery service life up to 50% and provides advance warning for battery replacement	
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 (RJ45) ports; USB port as standard (HID). 6-foot RS-232 and USB cables included	

Communications card	Network Card-MS optional , standard on network bundles (bundled models include an N)	
Power management software	Integrates with Eaton Intelligent Power Manager software	
Environmental & standards		
RoHS compliance	Yes	
Surge protection	MOV: 510V, 296Joules	MOV ratings : 271Volt (from L-N) and 510 Volt (from L-G and N-G), 190 Joules
EMC markings	IEC 62040-2 Class B Cat C2 / CISPR22 Class B / FCC part 15 Class B / VCCI Class B	IEC 62040-2 Cat C1 / CISPR22 / FCC part 15 Class B / VCCI Class B
Heat dissipation (BTU)	9PX1000GRT: 267 online, 438 battery 9PX1500GRT: 494 online, 731 battery 9PX2200GRT: 513 online, 741 battery 9PX3000GRT: 619 online, 1150 battery 9PX3000GLRT: 619 online, 1150 battery	9PX700RT: 241 online, 440 battery 9PX1000RT: 330 online, 646 battery 9PX1500RT: 512 online, 897 battery 9PX2000RT: 578 online, 974 battery 9PX3000RT: 844 online, 1462 battery
Audible noise	≤47 dB at 1 meter	
Operating temperature	0 to 40°C (32°F to 104°F)	
Altitude operating temperature range	0-1500m @ 0°C - 40°C 1500m-3000m @ 0°C - 35°C	
Safety conformance	CE / cULus	CE / cULus / NOM
Storage temperature	0 to 35°C (32°F to 95°F); without batteries: -15 to 55°C (5°F to 131°F)	
Relative humidity	0 to 96% non-condensing	

Battery backup times (in minutes)⁷

Load (watts)	Internal batteries	+1 EBM	+2 EBMs	+3 EBMs	+4 EBMs
9PX700RT					
630	11.3	37.4	67	99	134
600	12.1	39.7	71	105	143
500	15.8	49.5	89	132	178
400	21.1	64	116	172	233
300	29.4	89	161	239	324
200	44.5	138	248	370	501
9PX1000RT					
900	6.3	24.1	43	64	86
800	7.7	27.8	50	74	99
700	9.5	32.8	59	87	118
600	12.1	39.7	71	105	143
500	15.8	49.5	89	132	178
400	21.1	64	116	172	233
300	29.4	89	161	239	324
200	44.5	138	248	370	501
9PX1000GRT					
900	7.3	41.0	79	121	165
800	8.6	46.7	90	138	188
700	10.3	54	105	160	218

7. Runtimes are shown at full load with maximum power factor, are approximate and may vary with equipment, configuration, battery age, temperature, etc. View interactive runtime graphs at www.eaton.com/9PX.

600	12.6	65	125	190	259
500	15.8	79	152	232	316
400	20.4	100	192	293	399
300	27.7	134	258	392	534
200	41.5	200	384	583	794
9PX1500RT					
1350	5.8	26.7	49.5	74	100
1200	7.1	30.9	57.2	86	116
1050	8.8	36.5	67.6	101	137
900	11.2	44.2	81.9	122	165
750	14.4	55.3	102.2	153	206
600	19.2	72.0	133.1	199	268
450	26.8	100.3	185.2	276	373
300	41.9	157.3	289.9	432	583
9PX1500GRT					
1500	5.0	25.1	46.4	69	94
1350	5.8	28.2	52.0	78	105
1200	6.9	32.2	60	89	120
1050	8.5	37.7	70	104	140
900	10.7	45.2	83	124	168
750	13.9	55.6	102	153	207
600	18.5	71	131	195	264
450	25.8	95.7	176	263	356
300	38.3	143	263	393	530
9PX2000RT					
1800	7.7	33.1	61	91	123
1620	9.1	37.6	70	104	140
1440	10.9	43.4	80	120	162
1260	13.2	50.9	94	141	190
1080	16.2	61	113	169	227
900	20.2	76	139	208	281
720	26.0	98	180	269	363
540	35.8	136	250	374	504
360	56.1	209	384	573	771
9PX2200GRT					
2000	6.0	28.8	53.0	79	107
1800	7.0	32.9	60	90	121
1600	8.4	37.9	69	104	140
1400	10.3	44.1	81	121	163
1200	12.9	52.3	96	144	194
1000	16.6	64	118	176	238

800	21.9	82	151	225	304
600	30.1	112	206	309	417
400	46.0	170	312	467	631
9PX3000RT					
2700	4.8	23.0	43	64	86
2430	5.6	26.2	49	73	98
2160	6.8	30	56	84	113
1890	8.4	36	66	99	133
1620	10.7	43	78	118	159
1350	13.9	53	97	145	196
1080	18.3	68	126	188	254
810	24.6	95	176	262	354
540	42.9	147	267	402	543
9PX3000GRT / 9PX3000GLRT					
3000	3.8	20.0	37.0	54.9	74
2700	4.5	23.0	42.2	63	85
2400	5.4	26.7	48.7	73	99
2100	6.6	31.2	57.1	86	116
1800	8.3	37.2	68	102	138
1500	10.8	45.7	84	125	170
1200	14.9	59.0	108	162	219
900	21.8	82	151	225	304
600	34.0	125	231	345	466