

# Eaton 9SX UPS technical specifications<sup>1</sup>

## Model overview

Catalog number	Power rating (VA/watts)	Input connection	Output receptacles	Dimensions (HxWxD, in.)	Weight (lb.)
<b>120V output, 50/60 Hz</b>					
9SX700	700/630	5-15P <sup>2</sup>	(6) 5-15R	9.9 x 6.3 x 13.9	26.5
9SX1000	1000/900	5-15P <sup>2</sup>	(6) 5-15R	9.9 x 6.3 x 15.1	30.9
9SX1500	1500/1350	5-15P <sup>2</sup>	(6) 5-15R	9.9 x 6.3 x 17.1	41.9
9SX2000	1960/1770	5-20P <sup>2</sup>	(1) L5-20R, (6) 5-20R	13.6 x 8.4 x 16.2	77.2
9SX3000	3000/2700	L5-30P <sup>2</sup>	(1) L5-30R, (4) 5-20R	13.6 x 8.4 x 16.2	77.2
9SX3000HW	3000/2700	Hardwired	Hardwired	13.6 x 8.4 x 16.2	77.2
<b>208V output, 50/60 Hz bundles</b>					
9SX1000G	1000/900	C14	(6) C13	9.9 x 6.3 x 15.1	30.9
9SX1500G	1500/1350	C14	(6) C13	9.9 x 6.3 x 17.1	41.9
9SX2000G	2000/1800	C14 / L6-20P <sup>3</sup>	(8) C13	13.6 x 8.4 x 16.2	77.2
9SX3000G	3000/2700	C20 / L6-20P <sup>3</sup>	(8) C13, (1) C19	13.6 x 8.4 x 16.2	77.2
9SX3000GL	3000/2700	C20 / L6-20P <sup>3</sup>	(1) L6-30R, (2) L6-20R, (2) 6-20R	13.6 x 8.4 x 16.2	77.2

## Additional specifications

General		
Topology	Double-conversion, online	
Configuration	Tower	
Color	Black and silver	
Diagnostics	Full system self-test at power up, ABM battery test every 30 days	
Warranty	2 years electronics and battery	
Remote power off	Remote On/Off (ROO) and Remote Power Off (RPO) rear terminal blocks	
Contents (Ships with the following items)	UPS Safety guide Quick Start Guide Reference guide Output cables (for G models) C19 to L6-20P input cables (for 9SX2000G, 9SX3000G, 9SX3000GL) Cable lockers (for G models) RS-232 serial cable USB cable	
<b>Electrical input</b>	<b>208V</b>	<b>120V</b>
Nominal voltage	208V default (200/208/220/230/240V)	120V default (100/110/120/125V)
Input voltage range	Full load: 190-276V, <25% load: 120-276V	Full load: 100-138V, <25% 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	≤8%	
<b>Electrical Output</b>	<b>208V</b>	<b>120V</b>

<sup>1</sup> Due to continuing product improvement programs, specifications are subject to change without notice.

<sup>2</sup> Input line cord is 8 feet long.

<sup>3</sup> C19 to L6-20P input connector is 8 feet long.

Power ratings	<p>9SX1000G: 1000VA / 900W</p> <p>9SX1500G: 1500VA / 1350W</p> <p>9SX2000G: 220/230/240V: 2000VA / 1800W 208V: 1800VA / 1620W 200V: 1600VA / 1440W</p> <p>9SX3000G &amp; 9SX3000GL: 220/230/240V: 3000VA / 2700W 208V: 2700VA / 2430W 200V: 2400VA / 2160W</p>	<p>9SX700: 700VA / 630W</p> <p>9SX1000: 1000VA / 900W</p> <p>9SX1500: 120/125V: 1500VA / 1350W 110V: 1350VA / 1215W 100V: 1200VA / 1080W</p> <p>9SX2000: 120/125V: 1960VA / 1770W 110V: 1764VA / 1593W 100V: 1568VA / 1416W</p> <p>9SX3000 &amp; 9SX3000HW: 120/125V: 3000VA / 2700W 110V: 2700VA / 2430W 100V: 2400VA / 2160W</p>
Circuit breaker	2200VA: None 3000VA: None	2000VA: None 3000VA: (3) 20A for (2) 5-20R each
Nominal voltage	208V default (200/208/220/230/240V)	120V default (100/110/120/125V)
Operating		
Output voltage regulation, steady state	±2% normal mode	±2% normal mode
Output Voltage THD (online)	Linear: <3%	Linear: <3%
Power factor	0.9	
Efficiency (online mode with resistive load)	<p>9SX1000G: 88%</p> <p>9SX1500G: 91%</p> <p>9SX2000G: 92%</p> <p>9SX3000G: 92%</p> <p>9SX3000GL: 92%</p>	<p>9SX700: 87%</p> <p>9SX1000: 88%</p> <p>9SX1500: 88%</p> <p>9SX2000: 88%</p> <p>9SX3000: 89%</p> <p>9SX3000HW: 89%</p>
Transfer time	0 ms	
<b>Extended Battery Module</b>		
Optional extended battery module (EBM)	9SX700	No optional EBM
	9SX1000 9SX1000G	9SXEBM36
	9SX1500 9SX1500G	9SXEBM48
	9SX2000 9SX2000G 9SX3000 9SX3000HW 9SX3000G 9SX3000GL	9SXEBM96
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	
<b>Communications</b>		
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	Mini-Slot Expansion port. Optional cards: -NETWORK-M2 Gigabit Web/SNMP Card -MODBUS-MS Modbus RTU Card -INDRELAY-MS Industrial Relay Card	
Power management software	Integrates with Eaton Intelligent Power Manager software	
<b>Environmental &amp; standards</b>		
Operating temperature	0 to 40 °C (32 to 104 °F) in Online mode, with linear derating for altitude	
Storage temperature	0 to 35°C (32°F to 95°F); without batteries: -25 to 55°C (-13°F to 131°F)	
Relative humidity	0 to 96% non-condensing	
Altitude operating temperature range	Up to 3,000 meters (9,843 ft) above sea level, no derating for 35 °C (95 °F) room temperature	
Audible noise	< 50 dBA at 1 meter typical	
RoHS compliance	Yes	
Safety conformance	CE / cULus	
EMC markings	9PX3000, 9PX3000HW: FCC Part 15, Subpart B, Class A ANSI C63.4-2014 EN 62040-2: 2018, C2  All other 120V models: FCC Part 15, Subpart B, Class B ANSI C63.4-2014 EN 62040-2: 2018, C1 IEC 62040-2: 2016	CE / cULus / NOM
Surge protection	MOV: 510V, 296Joules	FCC Part 15, Subpart B, Class B ANSI C63.4-2014 AS 62040.2-2008, C1 EN 62040-2: 2018, C1

#### Battery backup times (in minutes)<sup>4</sup>

Load	Internal batteries	+1 EBM	+2 EBMs	+3 EBMs	+4 EBMs
<b>9SX700</b>					
630W	5.8				
567W	7.0				
504W	8.4				
441W	10.4				
378W	13.0				
315W	16.6				
252W	21.7				
189W	29.7				
<b>9SX1000</b>					
900W	6.7	31.6	58.4	88	113
810W	7.9	35.7	66	99	130
720W	9.5	41	76	113	151
630W	11.7	47.9	88	132	180

<sup>4</sup> 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](http://www.eaton.com/9PX).

540W	14.6	57.1	105	156	218
450W	18.5	70	129	191	269
360W	24.1	89	164	244	-
270W	32.4	118	220	-	-
180W	47.1	173	-	-	-
9SX1000G					
900W	5.9	29.0	52.9	83	108
810W	7.0	32.6	60	91	120
720W	8.4	37.2	69	102	136
630W	10.3	43.2	80	116	159
540W	12.8	51.2	95	138	189
450W	16.2	62	115	168	232
360W	20.8	78	142	214	-
270W	27.4	103	185	-	-
180W	38.3	145	-	-	-
9SX1500					
1350W	6.0	29.0	53	81	105
1215W	6.9	32.2	59	90	118
1080W	8.3	36.6	68	102	135
945W	10.1	42.7	79	118	159
810W	12.8	51.3	95	140	192
675W	16.5	64	117	171	239
540W	21.9	82	150	220	-
405W	30.3	111	205	-	-
270W	46.3	171	-	-	-
9SX1500G					
1350W	5.3	28.2	50.9	79	104
1215W	6.5	31.7	58.0	88	116
1080W	8.0	36.3	67	100	133
945W	10.0	42.3	78	116	156
810W	12.6	50.5	94	138	189
675W	16.2	62	115	168	234
540W	21.1	80	146	215	-
405W	28.7	108	195	-	-
270W	43.7	162	-	-	-
9SX2000					
1770W	10.3	44	81	118	162
1620W	12.2	49.4	92	133	182
1440W	14.4	56.5	105	154	211
1260W	17.3	66	121	183	248
1080W	21.1	79	143	221	297

900W	26.2	97	175	274	363
720W	33.5	123	223	348	-
540W	44.8	165	306	-	-
360W	68	251	-	-	-
<b>9SX2000G</b>					
1800W	10.4	44	82	119	164
1620W	12.2	50	93	139	179
1440W	14.7	58.1	107	161	216
1260W	18.3	68	124	182	253
1080W	21.7	80	148	219	290
900W	27.5	102	180	276	396
720W	35	131	240	375	-
540W	47.2	173	323	-	-
360W	69	255	-	-	-
<b>9SX3000</b>					
2700W	5.7	28.2	54.4	80	103
2430W	6.8	32.0	59.5	89	117
2160W	8.3	36.8	67	102	136
1890W	10.3	43.1	77	118	161
1620W	12.9	51.8	93	140	194
1350W	16.7	64	117	172	241
1080W	22.2	83	154	223	-
810W	30.9	113	215	-	-
540W	47.8	175	-	-	-
<b>9SX3000G / 9SX3000GL</b>					
2700W	5.8	28.5	51.6	77	104
2430W	6.7	31.7	58.1	88	116
2160W	7.9	36	67	101	132
1890W	9.6	41.8	78	117	154
1620W	12.1	49.8	93	138	186
1350W	15.7	61	114	167	231
1080W	21	79	145	213	-
810W	29.2	108	195	-	-
540W	44	164	-	-	-