

Eaton 9E 6-20kVA UPS Technical Specification

CONSTRUCTION				
Model	9E6Ki	9E10Ki / 9E10KiXL	9E15Ki	9E20Ki / 9E20KiXL
Rating (VA/W)	6kVA/4.8kW	10kVA/8kW	15kVA/12kW	20kVA/16kW
Technology	Online double conversion			
Format	Tower			
UPS Dimensions: W x D x H (mm)	613 x 709 x 263		706 x 816 x 350	
UPS Weight / XL Model UPS Weight(kg)	68	85.4 / 28.9	145.3	159.9 / 47.8
EBM Dimensions (mm)	580 x 709 x 263		580 x 709 x 263 [†]	
EBM Weight (kg)	105.5	132	132 [†]	
ENVIRONMENTAL & SAFETY				
Ambient Operating Temperature	0°C to 40°C			
Ambient Storage Temperature	-15°C to 60°C without batteries; 0 to 35°C with batteries			
Operating Humidity	0-95% Non-Condensing			
Altitude	Up to 1000 meters above sea level with 10 % derating per 1000m			
Acoustic Noise	<55dB			
Safety	IEC/EN 62040-1			
EMC, Performance	IEC/EN 62040-2			
Approvals	CE, CB report (TUV)			
POWER CONNECTIONS				
Input/Output	Terminal 6mm ²	Terminal 10mm ²	Terminal 16mm ²	Terminal 25mm ²
USER INTERFACE				
Display	Eaton LCD Display and LED mimic diagram			
Communication Ports	RS232, USB, MS Slot (USB and RS232 cannot be used simultaneously)			
Optional	NETWORK-MS/MODBUS-MS/RELAY-MS			
Software	Intelligent Power Software			
ELECTRICAL CHARACTERISTICS - INPUT				
Nominal Voltage (Vac)	220 - 230 - 240	220 - 230 - 240 (1:1) / 380 - 400 - 415 (3:1)		
Maximum Operating Voltage (Vac)	276	276 (1:1) / 478 (3:1)		
Input voltage ranges without using batteries	176-276V without derating (up to 110-276V with derating)			
Input frequency range (Hz)	45-66, 50/60 autoselection			
Nominal Current (A)	26	41 / 16 (42 / 20,5 XL)	62 / 22	82 / 28 (83 / 29,5 XL)
Short Circuit Current (A)	82	137	205	273

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ELECTRICAL CHARACTERISTICS - OUTPUT				
Nominal Voltage	220/230/240 Selectable			
Voltage Tolerance	±2 %			
Voltage Distortion	THDU<3%			
Frequency (Hz)	Selectable; 50, 60 or autosensing			
Overload capacity	105%-110% : 5min, 110%-130% : 1min, 130%-150% : 10s, >150% : 100ms			
Efficiency	Up to 93% in Online mode, 97% in ECO mode			
INTERNAL BATTERY				
Recharge Time (hr)	< 8hr for 90% of the Charge			
Nominal Voltage of Battery Box	180 Vdc	240 Vdc	480 Vdc	480 Vdc
Charging Current (XL Models only)	-	4,4A	-	5A
Battery Type	VRLA, AGM			
Battery Configuration (UPS)	15 x 12V 9Ah	20 x 12V 9Ah	40 x 12V 9Ah	40 x 12V 9Ah
Battery Configuration (EBM)	30 x 12V 9Ah	40 x 12V 9Ah	40 x 12V 9Ah [†]	
TYPICAL BACKUP TIMES AT 50%/75% LOAD* (internal battery UPS + EBM's)				
9E	19/11	15/8	16/9	15/8
9E + 1 EBM	75/47	58/36	N/A	N/A
9E + 2EBM	107/70	81/64	79/49	58/36
9E + 3 EBM	163/104	124/80	N/A	N/A
9E + 4 EBM	222/140	168/108	116/76	81/54
CUSTOMER SERVICE & SUPPORT				
Warranty	1 year			

* Backup times are approximate and may vary with equipment, configuration, battery age, temperature, etc.

PART NUMBERS	6kVA 1:1	10kVA 1:1 or 3:1	15kVA 1:1 or 3:1	20kVA 1:1 or 3:1
UPS	9E6Ki	9E10Ki	9E15Ki	9E20Ki
EBM	9EEBM180	9EEBM240	9EEBM240 [‡]	9EEBM240 [‡]
EBM DC Cable Kit	9EEBMCBLKIT-1 [^]	9EEBMCBLKIT-1 [^]	9EEBMCBLKIT-2#	9EEBMCBLKIT-2#
UPS (XL Model)	-	9E10KiXL	-	9E20KiXL
Options	Network-MS, ModBus-MS or Relay-MS cards			

[‡] EBM for 15kVA and 20kVA needs to be deployed as a multiple of 2 in Series

[^] 1 required per EBM deployed, # 1 required per 2 x EBM deployed