

Eaton 93PM UPS Technical Specifications

General	
UPS output power rating (1.0 p.f.)	30, 40, 50, 60, 80, 100, 120, 150, 160, 200 kW
Efficiency in double conversion mode	Up to 97%
Efficiency in Energy Saver System (ESS)	> 99%
Field upgradeable	Yes
Inverter/rectifier topology	Transformer-free IGBT with PWM
Audible noise	30–50 kW: < 60 dBA 80–200 kW: < 65 dBA ESS operation: < 47 dBA
Altitude (max)	1000 m without derating (max 2000 m)
Input	
Input wiring	3 ph + N + PE
Nominal voltage rating (configurable)	220/380, 230/400, 240/415 V 50/60 Hz
Input voltage range	High +20% rectifier input, 10% bypass input Low -15% at 100% load, -40% at 50% load without battery discharge
Input frequency range	40-72 Hz
Input power factor	0,99
Input ITHD	30 kW: < 4.5% 40-200 kW: < 3%
Soft start capability	Yes
Internal backfeed protection	Yes
Output	
Output wiring	3 ph + N + PE
Nominal voltage rating (configurable)	220/380, 230/400, 240/415 V 50/60 Hz
Output UTHD	< 1% (100% linear load); < 5% (reference non-linear load)
Rated output power factor	1.0
Permitted load power factor	0,8 lagging - 0,8 leading
Overload on inverter	10 min 102-110%; 60 sec 111-125%; 10 sec 126-150%; 300 ms > 150%. On battery mode 300 ms > 126%
Overload when bypass available	Continuous < 125%, 10 ms 1000% Note: Bypass fuses may limit the overload capability!
Battery	
Battery type	VRLA
Charging method	ABM technology or Float
Temperature compensation	Optional
Battery nominal voltage (VRLA)	432 V (36 x 12 V, 216 cells) or 480 V (40 x 12 V, 240 cells) Note: Strings with different battery voltage may not be paralleled!
Charging current maximum	30–50 kW: 22 A 80–100 kW: 44 A 120–150 kW: 66 A 160–200 kW: 88 A
Battery start capability	Yes
Accessories	
	External battery cabinets with long-life batteries, external maintenance bypass switch, integrated manual bypass, MiniSlot connectivity (Web/SNMP, ModBus/Jbus, Relay)
Communications	

Minislot	3 communication bays
Network/SNMP interface	Yes, standard
Serial ports	Built-in host and device USB
Relay inputs/outputs	5 relay inputs and dedicated EPO 1 relay output

Compliance with standards

Safety (CB certified)	IEC 62040-1
EMC	IEC 62040-2
Performance	IEC 62040-3

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



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