

Eaton 93PS UPS Technical Specifications

General	
UPS output power rating (1.0 p.f.)	8, 10, 15, 20, 30, 40 kW
Efficiency in double conversion mode	> 96%
Efficiency in Energy Saver System (ESS)	Up to 99%
Field upgradeable	Yes
Audible noise	< 60 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	Rectifier Input: 187 to 276 V Bypass Input: rated voltage -15% / +10%
Input frequency range	40-72 Hz
Input power factor	0,99
Input ITHD	< 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%.
Overload when bypass available	Continuous < 125%, 20 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)	384 V (32 x 12 V, 192 cells) Note: Strings with different battery voltage may not be paralleled!
Charging current maximum	8-20 kW: Default 5A, configurable Maximum 25A 8-40 kW: Default 10A, configurable Maximum 50A
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	2 communication bays
Network/SNMP interface	Yes, standard
Serial ports	Built-in host and device USB
Relay inputs/outputs	5 building alarm inputs and dedicated EPO 1 relay output

Compliance with standards

Safety (CB certified)

IEC 62040-1

EMC

IEC 62040-2

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



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