Technical specifications

General		
UPS output power rating	Eaton 91PS Eaton 93PS	8-30 kW 8-40 kW
Efficiency in double conversion mode		96 %
Efficiency in Energy Saver System (ESS) mode		99 %
Paralleling capability		up to 4 units
Audible noise	10 kW frame 15-40 kW frame	< 54 dBA in double conversion < 60 dBA in double conversion
Altitude (max)		1000 m without derating (max 2000m)
Input		
Input wiring	Eaton 91PS (1:1) Eaton 91PS (3:1) & 93PS (3:3)	1 phase + N + PE 3 phases + N + PE
Nominal voltage rating	Eaton 91PS (1:1) Eaton 91PS (3:1) & 93PS (3:3)	220 V ; 230 V ; 240 V 50/60 Hz 220/380 V; 230/400 V; 240/415 V 50/60 Hz
Input frequency range		40 to 72 Hz
Input power factor		0.99
Input iTHD	8-10 kW 15-40 kW	< 5 % < 4 %
Soft start capability		Yes
Internal backfeed protection		Yes
Output		
Output wiring	Eaton 91PS (1:1 & 3:1) Eaton 93PS (3:3)	1 phase + N + PE 3 phases + N + PE
Nominal voltage rating	Eaton 91PS (1:1 & 3:1) Eaton 93PS (3:3)	220 V ; 230 V ; 240 V 50/60 Hz 220/380 V; 230/400 V; 240/415 V
Load power factor range		0.8 lagging – 0.8 leading

Battery		
Battery type		VRLA
Charging mode		Advanced Battery Management (ABM) or Float
Temperature compensated charging		Option
Battery quantity	Internal External	32 blocks, 192 cells per battery string 28-40 blocks per string
Charge current limit	10 kW frame 15/20 kW frame 30/40 kW frame	Configurable, maximum 12.5 A Configurable, maximum 18/25 A Configurable, maximum 36/50 A
Battery start capability		Yes
Alternative backup power sources		Li-Ion batteries Supercapacitors Wet cell batteries NiCd batteries

Options and accessories
Long life batteries
External battery cabinets and supercapacitor cabinets
External maintenance bypass switches
Battery breaker enclosures for rack batteries

Connectivity	
Native relay inputs/outputs	5 relay inputs and dedicated EPO 1 relay output More relay contacts available as option
Software	Eaton Intelligent Power Manager Eaton Intelligent Power Protector
Gigabit Network card (NETWORK-M2)	Web/SNMP Third party certified cybersecurity Up to 3 optional sensors (EMPDT1H1C2): Temperature, humidity and two status inputs
Industrial Gateway card (INDGW-M2)	Web/SNMP/Modbus RTU and TCP Third party certified cybersecurity Up to 3 optional sensors (EMPDT1H1C2): Temperature, humidity and two status inputs
Power Xpert UPS Minislot card (PXGMSUPS)	Web/SNMP/Modbus RTU and TCP/BACnet IP Optional Sensor (EMP001): Temperature, humidity and two status inputs
Industrial Relay-MS card (INDRELAY-MS)	5 relay outputs / 1 relay input

Compliance with standards	
Safety	IEC 62040-1; CB certified
EMC	IEC 62040-2
Performance	IEC 62040-3
RoHS	EU directive 2011/65/EU
WEEE	EU directive 2012/19/EU

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