Eaton 93PM UPS 30-250 kVA



Key Applications

- Small, medium and large data centres
- Finance and banking critical infrastructure
- Commercial buildings and industrial complexes
- Healthcare
- Telecommunications installations
- Process control equipment



Maximum energy efficiency. Minimum operating costs.

Lowest total cost of ownership

- The 93PM UPS sets new standards, with an operating efficiency level of up to 97% double conversion mode resulting in significant savings in operational costs.
- > 99% superior efficiency is delivered in Energy Saver System mode (ESS).
- Maximal power and energy density ensures a compact footprint.

Highly scalable and reliable

- Scalable, modular architecture and 'Pay as you grow' capability minimises CapEx.
- Eaton's unique Hot Sync wireless paralleling and internal redundancy ensures maximum availability and high reliability.

Easy deployment

- Thermal management support allows for flexible installation against the wall, in rows and in hot/cold aisle configurations.
- Easy access allows fast MTTR (mean time to repair).

Easy management

- Intelligent Power[®] software integrates with leading virtualisation management systems for monitoring and managing.
- The intuitive touchscreen LCD user interface and visual data logging provides clear information on the UPS status.



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Technical specifications

30-200 kW range (p.f. 1.0)		
30-200 kW range (p.f. 1.0) 60-250 kVA range (pf 0.9)		
Up to 97 %		
> 99%		
30-200 kW range: Up to 8 units		
60-250 kVA range: Up to 4 units		
Transformer-free 3-level IGBT-converter		
30-60 kVA: <60 dBA 80-250 kVA: <65 dBA ESS operation: <47 dBA		
1000 m without de-rating. Max. 2000 m		
3ph + N + PE		
380 V; 400 V; 415 V 50Hz/60Hz		
0.99		
30 kW range: <5% 40-250 kVA range: <3%		
Yes		
Yes		
3ph + N + PE		
380 V; 400 V; 415 V 50Hz/60Hz		
0.8 lagging – 0.8 leading		
< 1.5%		
VRLA		
Advanced Battery Management (ABM) or float		
Option		
Yes		
Wet cell batteries NiCd batteries Li-lon batteries Supercapacitors		

Options and accessories	
Internal and external batteries or supe	ercapacitors
Integrated battery breaker or external E	Battery breaker enclosures for rack batteries
Integrated manual bypass switch and e	xternal wrap-around maintenance bypass
Top air exhaust kit for against-the wall	or back-to-back installation
30-150 kVA range: Bottom or rear cable 160-250 kVA range: Bottom, rear and to	access as standard. Top cable access with optional kit op cable access as standard
30-200 kW (1.0pf) range: Separate batt easier scalability	ery per power module for battery redundancy and
Sync control for synchronising the outp	ut of two separate UPS systems
Power Conditioner mode	
Frequency converter mode	
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
PXGMS-card	Web/SNMP/Modbus RTU and TCP/BACnet IP
(Power Xpert Gateway-MS)	Temperature, humidity and two status inputs
	through Environmental Monitoring Probe (Option
Network-MS	Web/SNMP
	Temperature, humidity and two status inputs
	through Environmental Monitoring Probe (option
Industrial Relay-MS card	5 relay outputs / 1 relay input
(INDRELAY-MS)	
Compliance with standarts	
Safety	IEC 62040-1; CB certified
EMC	IEC 62040-2

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

Due to continuous product imrovement programmes, specifications are subject to change without notice.

1. Additional information on ESS performance, refer to 93PM UPS Technical Specification.

Eaton 93PM 30-250 kVA range

93PM Frame	Available Ratings	Rated output p.f.	Internal battery	Dimensions (WxDxH)	Weight
93PM-50	30 kW, 40 kW, 50 kW	1	10-30 min full load runtime	560 x 914 x 1876	870 kg
93PM-60	60 kVA	0.9	10 min full load runtime	560 x 914 x 1876	870 kg
93PM-100	40 kW, 50 kW; scalable to 100 kW 40+40 kW, 50+50 kW; N+1 Internal redundancy 80 kW, 100 kW	1.0		560 x 914 x 1876	267 kg 338 kg 338 kg
93PM-120	60 kVA; scalable to 120 kVA 60+60 kVA; N+1 internal redundancy 120 kVA	0.9		560 x 914 x 1876	267 kg 338 kg 338 kg
93PM-150	40 kW, 50 kW; scalable to 150 kW 80 kW, 100 kW; scalable to 150 kW 80+40 kW, 100+50 kW; N+1 internal redundancy 120 kW, 150 kW	1.0		560 x 914 x 1876	279 kg 341 kg 438 kg 438 kg
93PM-200	40 kW, 50 kW; scalable to 200 kW 80 kW, 100 kW; scalable to 200 kW 120 kW, 150 kW; scalable to 200 kW 120+40 kW, 150+50 kW; N+1 internal redundancy 160 kW, 200 kW	1.0		760 x 914 x 1876	346 kg 408 kg 471 kg 556 kg 556 kg
93PM-250	60 kVA, 120 kVA, 180 kVA; scalable to 250 kVA 120+60 kVA, 180+60 kVA; N+1 internal redundancy 250 kVA	0.9		760 x 914 x 1876	346 kg - 471 k 471 kg - 556 k 556 kg



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