

Eaton 93PR UPS

25-75 kVA/kW



75kW 93PR STD

75kW 93PR VRLA

Key applications

- Small and Medium data centers
- Finance and banking critical infrastructure
- Commercial buildings and industrial complexes
- Healthcare
- Telecommunications installations
- Process control equipment



25kW Hot-Swappable UPM Module



75kW Hot-Swappable UPM Module



Internal Easy-Maintenance Battery Module



Highest availability, at the lowest total cost of ownership

Lowest total cost of ownership (TCO)

- The 93PR UPS sets new standards, with an operating level of up to **96.5%** in double conversion mode resulting in significant savings in operational costs.
- > 99% superior efficiency is delivered in Energy Saver System mode (ESS).
- High efficiency even when UPS load levels are low, optimized by Variable Module Management System (VMMS).
- Maximal power and energy density ensures a compact footprint

Ultimate resiliency

- HotSync® patented load-sharing technology enables parallel operating of static converters without communication or load share signals. Eliminating the communication link eliminates risk of single point of failure.
- Hot-Swap operation for UPM, STS Module
- Battery Module Easy-Maintenance and **integrated battery health monitor system for over voltage, under voltage and fuse blown.**
- One static switch per UPS enables the full bypass capacity to be achieved from day one. Power modules can be added as loads increase.
- Equipped with an ultra-rapid fuse in the Static Switch
 - ensuring safety in all scenarios.
- Equipped with a back feed contactor
 - no need for additional installments
- Wide power factor range meets rapidly changing load power factor without de-rating.
- Intelligent battery charging through Advanced Battery Management prevents unnecessary charging and significantly retards battery wear rate.

Highly scalable and easy deployment

- Scalable, modular architecture and 'Pay as you grow' capability minimises CapEx.
- Easy access allows fast MTTR (mean time to repair).

Easy management

- Wide range of connectivity options (Web/SNMP, Modbus/Jbus, relay contacts)
- Intelligent Power® software integrates with leading virtualization management systems for monitoring and managing.
- The intuitive touchscreen LCD user interface and visual data logging provides clear information on the UPS status.

Eaton 93PR UPS 25-75kW

Technical Specification

General	
UPS Output Power Rating	25-75kVA/kW
Efficiency in double conversion mode	Up to 96.5%
Efficiency in Energy Saver System	>99%
Inverter/Rectifier topology	Transformer-free IGBT with PWM
Parallel capability	Up to 8 units
Audible noise	Default (Double conversion) < 65dBA
UPS Topology	Double Conversion
UPS dimensions (width x depth, height)	600mm x 1100mm x 2020mm
UPS Degree of protection	IP20
Altitude (max)	1000m without derating (max 2000m)
Input	
Input wiring	3ph + N + PE
Nominal voltage rating (configurable)	220/380, 230/400, 240/415 V
Rating input frequency	50 or 60 Hz, user configurable
Frequency tolerance	40 to 72 Hz
Input Power Factor	0.99
Input ITHD	<3%
Soft start capability	Yes
Internal backfeed protection	Yes
Battery	
Battery Type	VRLA, Eaton Lithium Pack
Charging method	ABM technology or Float
Temperature compensation	Optional
Battery nominal voltage (VRLA)	480 V (40 x 12 V, 240 cells) 492 V (41 x 12 V, 246 cells) 504 V (42 x 12 V, 252 cells)
Battery start capability	Yes

Output	
Output wiring	3ph + N + PE
Nominal voltage rating (Configurable)	220/380, 230/400, 240/415 50/60 Hz
Output UTHD	<1.5% (100 linear load) <3% (reference non-linear load)
Permitted load power factor	0.8 lagging ~ 0.8 leading
Overload on inverter (Line Mode)	10 min 105-110% 60 sec 111-125% 10 sec 125-150% 300ms > 150%
Overload on inverter (Energy Storage Mode)	10 min 105-110% 60 sec 111-125% 300ms > 125%
Overload when bypass available	Continuous < 115%, 10ms 1000%

NOTE: Bypass fuse may limit the overload capability!

Accessories

Load bus sync kits
MiniSlot connectivity (Network/SNMP, ModBus/Jbus, Relay)

Communications

MiniSlot	3 communication bays
Serial ports	Built-in host and device USB
Relay Input/output	5 relay inputs and dedicated EPO
Software	Eaton Intelligent Power Manager Eaton Intelligent Power Protector

Compliance with standards

Safety	IEC 62040-1
EMC	IEC 62040-2
Performance	IEC 62040-1
RoHS	EU directive 2011/65/EU

Due to continuous product improvement programs, specification are subject to change without notice

Eaton 93PR 25-75kW Range

Description	Rating	Power factor	Dimension (WxDxH)	Weight (Kg)	
93PR-25(75)-STD	25 kVA/kW	1.0	600 mm x 1100 mm x 2020 mm	293	
93PR-50(75)-STD	50 kVA/kW	1.0	600 mm x 1100 mm x 2020 mm	321	
93PR-75(75)-STD	75 kVA/kW	1.0	600 mm x 1100 mm x 2020 mm	349	
93PR-25(75)-VRLA	25 kVA/kW	1.0	600 mm x 1100 mm x 2020 mm	987	
93PR-50(75)-VRLA	50 kVA/kW	1.0	600 mm x 1100 mm x 2020 mm	1015	
93PR-75(75)-VRLA	75 kVA/kW	1.0	600 mm x 1100 mm x 2020 mm	1043	
Internal Battery Discharging Time table					
Model	Rating	Backup time (mins)			
		100%	75%	50%	25%
93PR-25(75)-VRLA	25 kVA/kW	27	39.8	65.1	141.7
93PR-50(75)-VRLA	50 kVA/kW	10.6	15.6	27	65.1
93PR-75(75)-VRLA	75 kVA/kW	5.5	8.9	15.6	39.8

Battery backup time is based on pure resistive load, factory default brand battery.