

Eaton 93PR UPS

25 - 200 kW

Lowest total cost of ownership and maximum availability – taking scalability, resiliency, safety and efficiency to the next level.

The most advanced UPS in its power range, the Eaton 93PR is ideal for small to mid-sized data centres and other mission critical applications where efficiency, reliability, safety and scalability are essential.

Future-ready

The rapid adoption of the cloud, constant evolution of IT technologies, increased focus on environmental footprint and sophistication of mission critical applications is demanding even more efficient, resilient, scalable and safe power protection solutions.

The new levels of efficiency and scalability offered by the 93PR minimise Total Cost of Ownership while the safety and resiliency, both in infrastructure and IT layers, maximise availability and ensure business continuity.

All-round value

Available in 200kW frame sizes, the modular design of the 93PR enables it to suit a wide range of requirements. And, whichever one you choose, you can be sure it will provide the lowest Total Cost of Ownership combined with maximum availability, for cost-efficient business continuity.

Ensuring that you can always access the power your mission critical application requires – under all circumstances – without compromising business performance or safety, the 93PR is the most efficient, scalable, Cloud-ready and safe UPS you can choose.



Safety

Ensuring safety in any electrical installation is a must. Safe hot-swappable design and in-built back-feed protection ensures safety and compliance with regulations.



Efficiency

With high efficiency being translated into reduced electrical and cooling losses, the 93PR helps to minimise operational expenditure costs, in addition to addressing the cost pressures resulting from commoditisation of IT services. Increased efficiency also leads to higher sustainability, through reduced carbon emissions.



Scalability

Scalability helps to optimise capital expenditure by only deploying additional equipment when necessary and providing additional flexibility to respond to your changing needs. The scalability of the 93PR also provides increased flexibility to accommodate the changing requirements of rapidly evolving technologies.



Resiliency, virtualisation & cloud-readiness

The ability of a system to absorb faults and still remain in its desired operational state is paramount to minimising costly downtime. The 93PR takes resiliency to the next level by bridging electrical and IT infrastructures.

TECHNICAL SPECIFICATIONS

General								
UPS output power rating (1.0 p.f)	25, 50, 75, 100, 125, 150, 175, 200kW							
Efficiency in double conversion mode	> 96%							
Efficiency in Energy Saver System (ESS)	> 99%							
Static bypass rating	200kW							
External paralleling	up to 4 units with HotSync technology							
UPS topology	Double conversion							
UPS degree of protection	IP20							
Acoustic noise at 1 m, in 25 °C ambient temperature	<70 dBA in double conversion <55 dBA in ESS							
Altitude (max)	1000m above sea level at 40 °C, Maximum 2000m with 1% derating per each add. 100m							
Input								
Rated input voltage	220/380 V, 230/400 V, 240/415 V, 50/60 Hz							
Voltage tolerance-Rectifier input	187 to 276 V							
Voltage tolerance-Bypass input	rated voltage-15% / +10%							
Rated input frequency	50 or 60 Hz, user configurable							
Frequency tolerance	40 to 72 Hz							
Input wiring	3 phase + neutral							
Input power factor at 100% load	>0.99							
Input ITHD	<3%							
Rated input r.m.s current	25 kW	50 kW	75 kW	100 kW	125 kW	150 kW	175 kW	200 kW
380V	40A	80A	120A	159A	199A	239A	278A	318A
400V	38A	76A	114A	151A	189A	227A	264A	302A
415V	37A	73A	110A	146A	182A	219A	255A	291A
Soft start capability	Yes							
Internal backfeed protection	Yes							
Output								
Output wiring	3 phase + neutral							
Rated output voltage rating	220/380 V, 230/400 V, 240/415 V, configurable							
Total voltage harmonic distortion	<1% (100% linear load); <5% (100% non-linear load)							
Output power factor	1.0							
Permitted load power factor	0.8 lagging to 0.8 leading							
Overload on inverter	10 min 102-110%, 60 sec 111-125%, 10 sec 126-150%, 300 ms > 150%.							
Overload on Bypass	Continuous < 125%, 20ms 1000%							
Battery								
Battery type	12V, VRLA							
Charging Method	ABM technology or float							
Temperature compensation	Optional							
Battery nominal voltage (VRLA)	480 V							
Battery quantity	36 to 44 blocks. Default is 40 blocks							
Charge current limit	Default 5A, configurable maximum 25A per UPM							
Battery start capability	Yes							
Communications								
Minislot	3 Communications bays							
Network/SNMP interface	Yes, optional							
Serial ports	Built-in host and device USB							
Standard connectivity ports	Mini-slot ports for optional cards, Device USB and Host USB, RS-232 service port, relay output, 5 building alarm inputs and a dedicated EPO							
Accessories								
	MiniSlot connectivity (Web/SNMP, ModBus/Jbus, Relay) External Battery Cabinet(EBC) Parallel Tie Cabinet(PTC) External Maintenance Bypass Switches(EMBS) External Battery Cabinet Breaker(EBCB)							
Compliance with standards								
Safety	IEC 62040-1							
EMC	IEC 62040-2							
Performance	IEC 62040-3							
Part Number	Description	Rating	Dimensions(WxDxH) mm			Nett Weight(kg)		
730-80492-00P	Eaton 93PR 25kW (UPM) Uninterruptible Power Module	25KW	460 x 600 x 130			28		
9106-42218-00P	Eaton 93PR 200kW Frame, internal back-feed	200KW max	603 x 1013 x 2050			310		
9106-42217-00P	Eaton 93PR 200kW Frame, internal back-feed, MBS	200KW max	603 x 1013 x 2050			368		

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