Eaton 93PS UPS

8-40 kW



Key applications:

- IT applications:
 - Server rooms
 - Localised Data centres
- Mission critical applications:
- Manufacturing/Industrial facilities
 - Transportation
 - Retail Buildings
 - Healthcare
 - Telecomm
 - Government





Lowest Total Cost of Ownership (TCO)

- Efficiency
 - Above 96% efficiency in double conversion mode
 - Up to 99% efficiency with Energy Saver System
- Scalability
 - Scalable architecture and 'Pay as you grow' capability to minimise Capital Expenditure
 - Paralleling of up to 4 units
- Inherent redundancy
 - Modular design allows internal redundancy (separate battery configuration also available)
- Smallest footprint in the market
 - The 93PS provides significantly more in a smaller package, with a footprint of only 0.25 m² for the smaller frame (8-20 kW) and 0.36 m² for the large frame (8-40 kW)
- Unity power factor (1.0)

Maximum Availability

- Hot Swap and Hot Scalable
 - A module can be replaced while the other continues protecting the load (concurrent maintenance)
 - A module can be added while the other continues protecting the load (hot scalable)
 - Individual battery strings can be serviced while other strings are supporting the load
- Super-sized static switch
 - Optional super-sized Static Switch to enhance the selectivity of the overall electrical installation
- Safety
 - Equipped with an ultra-rapid fuse in the Static Switch ensuring safety in all scenarios
 - Equipped with a backfeed contactor no need for additional installments
- Cloud & Virtualisation ready
 - The 93PS and Eaton's Intelligent Power Manager software suite takes the resiliency of the system to the next level by bridging the electrical and IT infrastructure
 - IT and electrical infrastructure management from a "Single pane of glass"
 - Load shedding 50% drop in load equates to 250% more runtime!

Eaton 93PS UPS

General	8-20 kV	٧		8-40 kV	V	
UPS output power rating (1.0 p.f.)	8, 10, 15, 20			8, 10, 15, 20, 30, 40, 8+8, 10+10, 15+15, 20+20		
Model catalogue reference	93PS-XX(20)-YY-		93PS-XX(40)-YY-			
Number of internal batteries	0 to 2 x 32 blocks		0 to 4 x 32 blocks			
UPS options	Long life batteries (LL) Internal maintenance bypass switch (MBS) External maintenance bypass switch External battery cabinets					
Upgradability	Yes, up to 20 kW		Yes, up to 40 kW			
External paralleling	Up to 4 units with HotSync technology					
UPS topology	Double conversion					
Efficiency in Double conversion mode	>96%					
Efficiency in Energy Saver System (ESS)	Up to 99%					
UPS dimensions (width x depth x height)	335 x 750 x 1300 mm 480 x 750 x 1750 mm					
UPS Degree of protection	IP 20					
Acoustic noise at 1 m, in 25 °C ambient temperature	< 60 dBA in double conversion < 47 dBA in ESS					
Maximum service altitude	1000 m (3300 ft) above sea level at 40 °C Maximum 2000 m (6600 ft) with 1% derating per each add. 100 m					
Input						
Rated input voltage	220/380 V; 230/400 V; 240/415 V					
Voltage tolerance: Rectifier input Bypass input	187 to 276 V rated voltage -15% / +10%					
Rated input frequency Frequency tolerance	50 or 60 Hz, user configurable 40 to 72 Hz					
Input wiring	3 phases + neutral					
Input power factor	0.99					
Input ITHD	8 kW < 5%	10 kW < 4%	15-40 kV	N		
Rated input r.m.s. current	8 kW	10 kW	15 kW	20 kW	30 kW	40 kW
380V 400V 415V	13 A 12 A 12 A	16 A 15 A 15 A	24 A 23 A 22 A	32 A 30 A 29 A	48 A 46 A 44 A	63 A 61 A 58 A
Soft start capability	Yes					
Back feed protection		roctifio	and hyr	ass line		

Outnut				
Output wiring	2 phagas i noutral			
Output wiring	3 phases + neutral 220/380 V; 230/400 V; 240/415 V, configurable			
Rated output voltage	220/380 V; 230/400 V; 240/	/415 v, configurable		
Total voltage harmonic distortion				
100% linear load 100% non-linear load	< 1% < 5%			
Overload capability On inverter	10 min 102-110% load 60 sec 111-125% load 10 sec 126-150% load 300 ms >150% load			
On bypass	Continuous < 125% load 20 ms 1000% load			
Load power factor				
Rated Permitted range	1.0 0.8 lagging to 0.8 leading			
Battery	8-20 kW	8-40 kW		
Battery technology	12 V, VRLA			
Battery design life	5 or 10 years			
Battery quantity	32 blocks, 192 cells per battery string			
Battery voltage	384 V			
Nominal Ah capacity (C10)	9 Ah or 7 Ah Long life			
Charge current limit	Default 5 A, configurable Maximum 25 A	Default 10 A, configurabl Maximum 50 A		
Battery start option	Yes			
Communication Circuits				
MiniSlot	2 communication bays			
Network/SNMP interface	Yes, standard			
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, Web and SNMP card			
Compliance with Standard	s			
0 (, (00 , .:	IEC 62040-1			
Safety (CB certified)				
EMC	IEC 62040-2			

