

Eaton 93PX UPS

15-20 kVA

1:1

3:1

3:3



Key applications

- Commercial buildings and industrial complexes
- Industrial automation equipment
- Medical devices
- Healthcare
- IT infrastructure (High-density racks)
- Small and medium data centers
- Telecommunications installations

Lowest Total Cost of Ownership (TCO)

- Highest efficiency in its product range with above 96 % efficiency in double conversion mode and up to 99 % efficiency in Energy Saver System mode
- Scalable by paralleling up to 3 units
- High power density, 3U high modules to save valuable rack space
- Unity power factor (1.0), providing more real power than many of its rivals

Easy installation and management

- Flexible installation options
 - Rack or standalone installation
- Versatile wiring options, all options in the same package 3:3, 3:1, 1:1 (input:output phase connections)
- Large touch screen display (with gravity sensor)
- Intelligent Power Manager is compatible with all major OS including virtualization software such as VMware and Hyper-V is included with each UPS
- Maintenance bypass modules available for easy maintenance and paralleling
- Cyber secure connectivity options available



Built-in gravity sensor that automatically rotates the screen based on UPS orientation.

Connectivity



Eaton Gigabit Network Card



Eaton Gigabit Modbus Card



Environmental Monitoring Probe



Powering Business Worldwide

Technical specifications

UPS power module	93PX 15 kVA	93PX 20 kVA
Physical dimension		
Dimension (H*W*D)	129 mm * 438 mm * 768.90 mm	
Net weight (Kg)	23.7	
Environment		
Operation temperature	0 °C ~ 50 °C (0 ~ 40 no derating, 40 °C ~ 50 °C derating to 50 %)	
Storage temperature	- 25 °C ~ 60 °C	
Relative humidity	0 ~ 95 %	
Operating altitude	0 ~ 4000 m (0 ~ 1000 m no derating, 1000 m ~ 4000 m the load derating 1 % every up 100 m)	
Noise level	≤ 55 dB	
EBM (External Battery Module)		
Dimension (H*W*D)	129 mm * 438 mm * 593.80 mm	
Net weight (Kg)	124.2	
MBP (Maintenance Bypass)		
Dimension (H*W*D)	129 mm * 438 mm * 558.80 mm	
Net weight (Kg)	21.5	
Input		
Rated input voltage	1 phase 220/230/240 V; 3 phase 380/400/415 V	
Input voltage range	160 V ~ 300 V full load; 100 ~ 160 V linear derating	
Rated input frequency	50 Hz / 60 Hz	
Input frequency range	40 Hz – 70 Hz	
Input frequency phase lock range	50 Hz system: 45 Hz - 55 Hz 60 Hz system: 54 Hz - 66 Hz	
System compatibility	TN-S / IT	
Input power factor (PF)	> 0.995 both 1 phase and 3 phases	
THDi	≤ 3 % linear load; ≤ 5 % non-linear load	

Backup time table

EBM quantity	Load	Backup time (Min) - 15 kVA	Backup time (Min) - 20 kVA
1 group (2*240 V EBM)	100 %	3.8	2.4
	75 %	5.7	3.8
	50 %	9.5	9.6
	25 %	23.5	24.9
2 group (2*2*240 V EBM)	100 %	13.8	8.5
	75 %	20.7	13.8
	50 %	35.1	25.4
	25 %	91.0	65.6
3 group (3*2*240 V EBM)	100 %	26.3	17.0
	75 %	39.4	26.3
	50 %	68.1	42.9
	25 %	179.3	98.7
4 group (4*2*240 V EBM)	100 %	39.8	25.1
	75 %	59.6	39.8
	50 %	104.3	67.2
	25 %	277.8	133.0

UPS power module	93PX 15 kVA	93PX 20 kVA
Output		
Input-output phase connection	Input-output 3-1, 3-3, 1-1	
Rated output voltage	1 phase 220/230/240 V; 3 phase 380/400/415 V	
Rated output frequency	50 Hz / 60 Hz	
Rated output appearance power	15 kVA	20 kVA
Rated output active power	15 kW	20 kW
Max PF	1	
Voltage variation	± 1 %	
THDV	≤ 1 % linear load; ≤ 3 % non-linear load	
Load crest ratio	≥ 3:1	
Output connection	Terminal block	
Overload capacity line mode (at rated voltage)	105 % < Load ≤ 125 % : 10 min 125 % < Load ≤ : 1 min > 150 % : 0.5 s	
Battery and charger		
Internal batteries	None. 1 pair of EBM as minimum to provide backup time	
Max. quantity	6 pairs (2*6)	
Battery voltage	± 240 V (adjustable to ± 192 V for external battery solutions)	
Charging current	0 ~ 13 A adjust	
Recharging time	3 hours to 90 % (2 EBM)	
Efficiency		
Online mode	up to 96 %	
ECO or ESS mode	up to 98.8 %	
Other working mode		
Parallel mode	Maximum 3 (60 kVA/kW)	
Interface		
Display	Color touch LCD with gravity sensor	
Connectivity port	RS232 DB9; USB 2.0 type-B; programmable dry contacts in/out; 1 x Mini-Slot for comms cards	

Part number

Model	93PX 15 kVA	93PX 20 kVA
Product description		
Part number		
UPS power module	93PX15KiPM	93PX20KiPM
External battery module 480 V	93PXEBM480 (contains 2 x (240 V, 3RU) modules each)	
MBP simple version	MBP20Ki	
MBP standard version	MBP20KiPDU	
MBP 1+1 parallel version	MBP20KiPARA	
Network card	Network-M2	
Modbus card	INDGW-M2	
Environmental monitoring probe	EMPDT1H1C2	
Netpack 9U (includes power module, EBM, rack kit and network card)	93PX15KIRTN	93PX20KIRTN