

Eaton 93PX UPS

15-20 kVA

1:1

3:1

3:3



Key applications

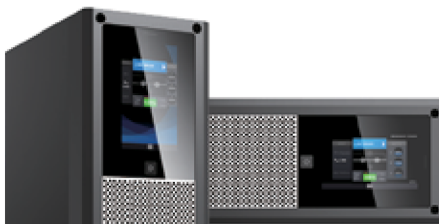
- Commercial buildings and industrial complexes
- Industrial automation equipment
- Medical devices
- Healthcare
- IT infrastructure (High-density racks)
- Small and medium data centers
- Telecommunications installations

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



Technical specifications

UPS power module 93PX 15 kVA

93PX 20 kVA

Physical dimension	
Dimension (H*W*D)	129 mm * 438 mm * 691 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 * 589 mm
Net weight (Kg)	124.2
MBP (Maintenance Bypass)	
Dimension (H*W*D)	129 mm * 438 mm * 489 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

UPS power module

93PX 15 kVA

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Output	
Input-output phase connection Rated	Input-output 3-1, 3-3, 1-1
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 Rated	15 kVA 20 kVA
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 EBMs 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

Backup time table

Backup time

EBM quantity Load (Min) - 15 kVA

Backup time (Min) - 20 kVA

EBM quantity	Load (Min)	15 kVA Backup time (Min)	20 kVA Backup time (Min)
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

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)
MBP simple version	each)
MBP standard version	MBP20Ki
MBP 1+1 parallel version	MBP20KiPDU
Network card	MBP20KiPARA
Modbus card	Network-M2
Environmental monitoring probe	INDGW-M2
Netpack 9U (includes power module, EBM, rack kit and network card)	EMPD11H1C2 93PX15KIRTN 93PX20KIRTN