New Eaton 95X 15KVA/20KVA UPS



New Eaton 9SX 15KVA/20KVA UPS

The new Eaton 9SX 15K/20K UPS provides stable power for critical IT infrastructure, Industrial, Manufacturing and Medical devices. With advanced technology to improve the double conversion efficiency and reduce footprint, saving both cost and rack space. Eaton's 95X product with it's robustness in design for hash environments, or applications outside of a comms rooms.



IT infrastructure (High-density Racks)





Key feature



High efficiency

Double conversion efficiency up to 96%.

97.0%		96.0% 96.	1% 96.1% 9	96.1% 95.9%	05.00	
96.0%	95.6%	00	0 0	0-0-0-	95.8% • 95.79	
95.0%	94.7%					
94.0%	ĭ					
92.0%	.9%					

9SX reduces energy usage & CO2 emissions to help IT Managers save costs on power and cooling.

High power density

- The 15KVA/20KVA power model is only 3U rack space.
- Short depth chassis suitable to be deployed in cabinets as shallow as 800mm deep.
- 438mm width for standard 19" rack mounting.



9SX reduces space with same power rating.

High power factor

Unity power factor VA=Watt

Powers more servers than similar UPSs with equivalent VA ratings with lower power factors.

Versatile installation

Can be easily deployed as a rack mount or free standing (tower) unit.



Versatile wiring

Wide array of electrical environment.

Input and output wiring can be

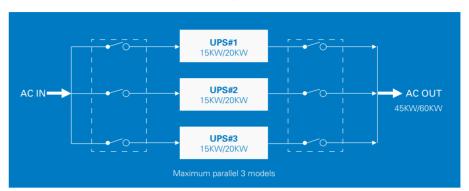
3-3, 3-1, 1-1 mode

separated source.

All wiring modes catered for by a single SKU. Modes are changed by use of copper jumpers provided.

Parallel operation

For redundancy and expanded power rating.



ESS mode

Achieve up to **98.8%** efficiency in ESS mode. System switches to online mode on demand in less than 2ms response time.

Battery management

Eaton's exclusive ABM® technology increases battery service life by 50%. ABM uses an advanced, three-stage charging technique and closely monitors battery health to provide advanced notice when batteries need replacement. Variable charging current ranges from 0-13A, suitable for recharging larger battery banks.

Endure harsh environment

Operation temperature up to 50 °C. Maximum operation altitude up to 4000m. Line mode overload capacity up to 10min at 125% rated load.

Professional HMI for operation, configuration and setting

Multi connectivity port - RS232, USB, dry in/out, EPO, intelligent slot.



Large coloured touch screen LCD

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





Intelligent Power Management Software

IPP/IPM compatible with all major OS including virtualization software such as VMware and Hyper-V.



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Product accessories

MBP (maintenance bypass model)

Integrated maintenance bypass and load segment.

Load segment control enables prioritized shutdown of nonessential equipment to maximize battery runtime for critical devices.



Paralleled systems require 1 x MBP per UPS module.

MBP20KPARA (Paralleling module) available for ease of deployment of a 2-UPS paralleled system.



EBM

Connect up to 6 pairs (2*6) of EBMs for extended runtime. Minimum deployment is 2 x EBMs per UPS, with increments of 2s.





Connectivity card



Network-M2 Giga bit network card



INDGW-M2 Giga bit Modbus card



EMPDT1H1C2 Environmental module. Monitors temperature and humidity.



Technical specifications

UPS power module	9SX15KPM	
Input		
Rated input voltage	1 phase 220/230/240V; 3 phase 380	
Input voltage range	160V~300V full load; 100~160V line	
Rated input frequency	50Hz/60Hz	
Input frequency range	40 Hz– 70 Hz	
Input frequency phase lock range	50Hz system:45 Hz– 55 Hz; 60Hz sys	
System compatibility	TN-S / IT	
Input power factor (PF)	>0.995 both 1 phase and 3 phases	
THDi	≤3% linear load; ≤5% non-linear loa	
Output		
Input-output phase connection	Input-output 3-1, 3-3, 1-1	
Rated output voltage	1 phase 220/230/240V; 3 phase 380	
Rated output frequency	50Hz/60Hz	
Rated output appearance power	15KVA	
Rated output active power	15KW	
Max PF	1	
Voltage variation	±1%	
THDV	≤1% linear load; ≤3% non-linear loa	
Load crest ratio	≥3:1	
Output connection	Terminal block	
Overload capacity line mode (at rated voltage)	105% <load≤125%: 10min<br="">125%<load≤150%: 1min<br="">>150% :0.5s</load≤150%:></load≤125%:>	
Battery and charger		
Internal Batteries	None. 2 x EBMs as minimum to pro	
Max. quantity	6 pairs (2*6)	
Battery voltage	\pm 240V (adjustable to \pm 192V, use	
Charging current	0~13A 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		
CVCF(constant voltage and constant frequency)	No derating at 3-3, 3-1 mode; Detai	
Parallel mode	maximum 3	
Interface		
Display	Coloured touch LCD with gravity se	
Connectivity port	RS232 DB9; USB 2.0 type-B; progra	

	9SX20KPM			
0/400/415V				
er derating				
stem:54 Hz – 66	Hz			
ad				
0/400/415V				
	20KVA			
	20KW			
ad				
ovide backup tim				
e with correct bat	ton			
ring to 60% at 1-1 mode				

ensor

rammable dry contacts in/out; 1 x Mini-Slot for comms cards

Technical specifications

UPS power module	9SX15KPM 9SX20KPM		
Physical dimension			
Dimension (H*W*D)	129mm*438mm*589mm		
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	0~4000m (0~1000m no derating, 1000m~4000m the load derating 1 % every up 100m)		
Noise level	<55dB		
Warranty	2 years		
Certification			
Safety	CE/TLC/RCM		
Energy saving	COC		
EBM			
Dimension (H*W*D)	129mm*438*589mm		
Net weight (Kg)	124.2		
MBP (maintenance bypass)			
Dimension (H*W*D)	129mm*438*489mm		
Net weight (Kg)	21.5		

Backup time table

EBM quantity	Load	Backup time(Min) - 15kVA	Backup time(Min) - 20kVA
1 group (2*240V 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*240V 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*240V 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*240V EBM)	100%	39.8	25.1
	75%	59.6	39.8
	50%	104.3	67.2
	25%	277.8	133.0

Part number

Model	9SX15K 9SX20K		
Product description	Part number		
UPS power module for ANZ	9SX15KPMAU	9SX20KPMAU	
External battery module 480V	9SXEBM480RT6U (contains 2 x (240V, 3RU) modules each)		
MBP simple version	MBP20K		
MBP standard version	MBP20KPDU		
MBP 1+1 parallel version	MBP20KPARA		
New network card	Network-M2		
Modbus card	INDGW-M2		
Environment detection card	EMPDT1H1C2		

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