

# 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 9SX product with its robustness in design for harsh environments. or applications outside of a comms rooms.





IT infrastructure (High-density Racks)



Industrial & Manufacturing



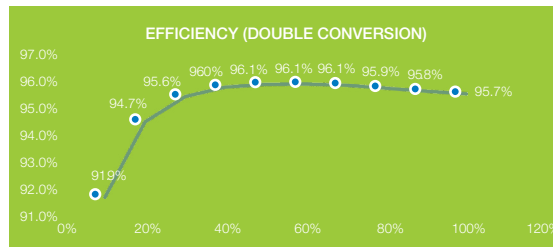
Medical Applications

## Key feature



### High efficiency

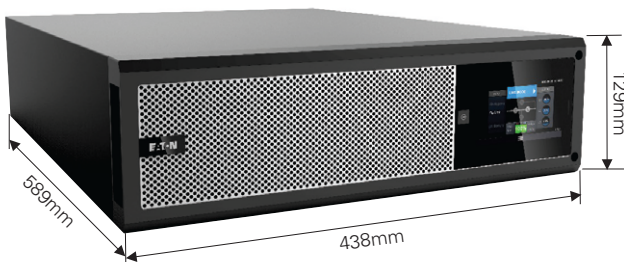
Double conversion efficiency up to 96%.



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 connected as 3 phase or 1 phase.

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

Utility input and bypass input can be connected as single source or separated source.

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



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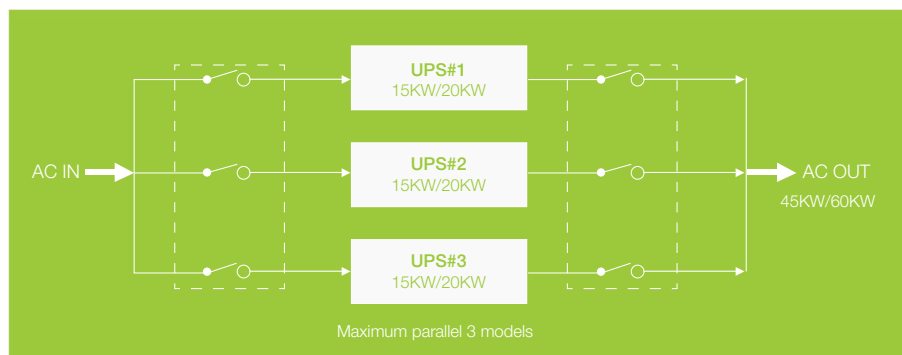
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## Parallel operation

For redundancy and expanded power rating.



## Large coloured touch screen LCD

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



## 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.

## 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)



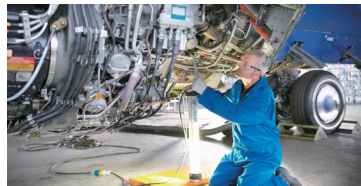
Integrated maintenance bypass and load segment.

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	9SX20KPM
<b>Input</b>		
Rated input voltage	1 phase 220/230/240V; 3 phase 380/400/415V	
Input voltage range	160V~300V full load; 100~160V liner derating	
Rated input frequency	50Hz/60Hz	
Input frequency range	40 Hz– 70 Hz	
Input frequency phase lock range	50Hz system:45 Hz– 55 Hz; 60Hz 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	
<b>Output</b>		
Input-output phase connection	Input-output 3-1, 3-3, 1-1	
Rated output voltage	1 phase 220/230/240V; 3 phase 380/400/415V	
Rated output frequency	50Hz/60Hz	
Rated output appearance power	15KVA	20KVA
Rated output active power	15KW	20KW
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%: 10min 125%<Load≤150%: 1min >150% :0.5s	
<b>Battery and charger</b>		
Internal Batteries	None. 2 x EBMs as minimum to provide backup time.	
Max. quantity	6 pairs (2*6)	
Battery voltage	±240V (adjustable to ± 192V, use with correct battery)	
Charging current	0~13A adjust	
Recharging time	3 hours to 90% (2 EBM)	
<b>Efficiency</b>		
Online mode	up to 96%	
ECO or ESS mode	up to 98.8%	
<b>Other working mode</b>		
CVCF(constant voltage and constant frequency)	No derating at 3-3, 3-1 mode; Detaring to 60% at 1-1 mode	
Parallel mode	maximum 3	
<b>Interface</b>		
Display	Coloured 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	



## Technical specifications

UPS power module	9SX15KPM	9SX20KPM
<b>Physical dimension</b>		
Dimension (H*W*D)	129mm*438mm*589mm	
Net weight (Kg)	23.7	
<b>Environment</b>		
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	
<b>Certification</b>		
Safety	CE/TLC/RCM	
Energy saving	CQC	
<b>EBM</b>		
Dimension (H*W*D)	129mm*438*589mm	
Net weight (Kg)	124.2	
<b>MBP (maintenance bypass)</b>		
Dimension (H*W*D)	129mm*438*489mm	
Net weight (Kg)	21.5	

## Part number

Model	9SX15K	9SX20K
<b>Product description</b>	<b>Part number</b>	
UPS power module for ANZ	9SX15KPMAU	9SX20KPMAU
External battery module 480V	9SXEBM480RT6U	
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	



# 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

