

New Eaton 9SX 15KVA / 20KVA UPS

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EATON

Powering Business Worldwide

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The new Eaton 9SX 15KVA/ 20KVA UPS provides stable power for critical IT infrastructure, Industrial devices and Medical applications. Improved design combines superior efficiency, compact form factor and maximum performance, even in challenging environments.



IT infrastructure (High-density Racks)



Industrial & Manufacturing



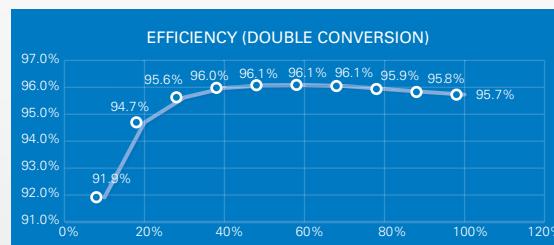
Medical Applications

Key feature



High efficiency

Double conversion mode efficiency of up to 96%.



9SX reduces energy usage & CO2 emissions, help IT Managers save their electricity and cooling bill.

High power density

- The 15KVA/ 20KVA power model saves rack space with its compact 3U design.
- 9SX 15/ 20K fits a standard 19" rack cabinet.

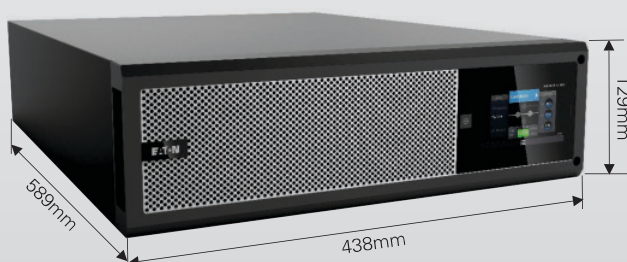
High power factor

Unity power factor VA=Watt

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

Versatile installation

Can easily be used as a rack or a tower model.



Versatile wiring

Supports a wide array of electrical environment

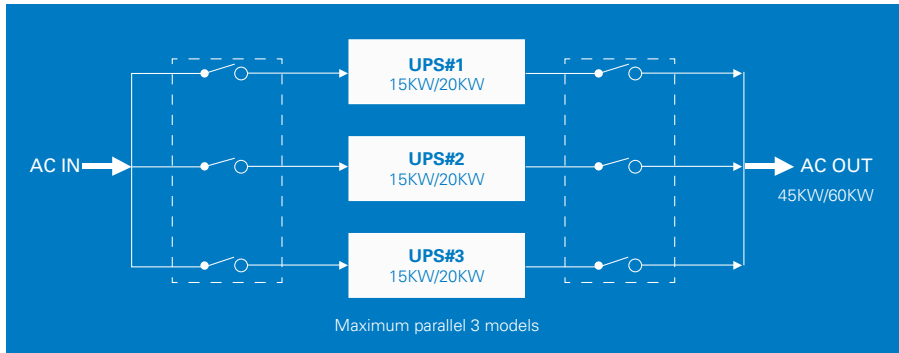
Input and output wiring can be connected as 3 phase or 1 phase

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

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

Parallel operation

Redundancy and expandable power rating.



ESS mode

In ESS mode, the 9SX UPS achieves an efficiency level of up to **98.8%**, with a break time of less than 2ms.

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. Maximum charging current is up to 13A, with a range of 0~13A and supports both large or small battery capacity recharge.

Endure harsh environment

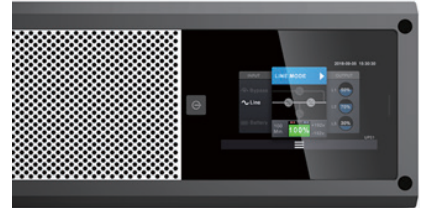
- Operating temperature of up to 50 °C.
- Maximum operating altitude of up to 4000m.
- Line mode overload capacity of up to 10min at 125% rated loads.

Professional HMI for operation, configuration and setting

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

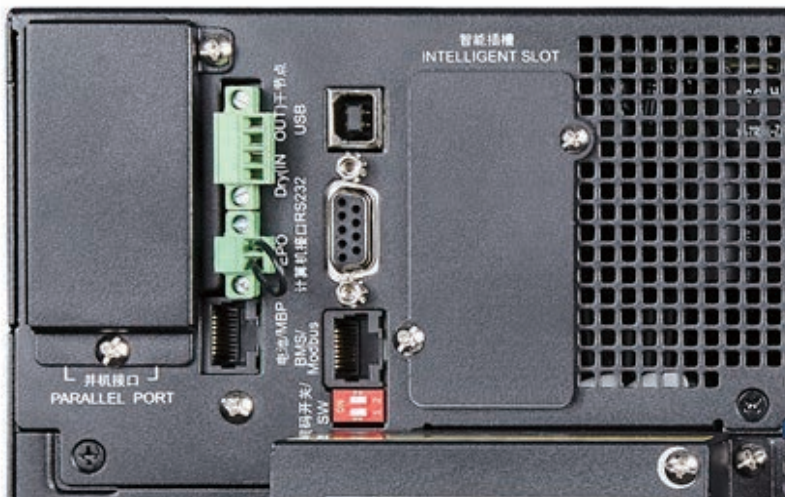
Large interactive touchscreen color LCD

Built-in gravity sensor to rotate the screen for rack and tower installation.



Intelligent Power Management Software

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



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.



Consider most of parallel mode is 1+1, 9SX also provide 1+1 parallel version MBP for user easy wiring. A special 1+1 parallel MBP version is available for parallel operations.



EBM

9SX 15K/ 20K power module requires at least 1 EBM to operate.



Connectivity card



Network-M2
Gigabit Network Card



INDGW-M2
Industrial Gateway Card



EMPDT1H1C2
Environmental Monitoring Probe
(temperature and humidity monitoring)



Technical specifications

UPS power module	9SX15KPM	9SX20KPM
Input		
Rated input voltage	1 phase 220 / 230 / 240V; 3 phase 380 / 400 / 415V	
Input voltage range	160V~300V full load; 100~160V linear derating	
Rated input frequency	50Hz / 60Hz	
Input frequency range	40Hz – 70Hz	
Input frequency phase lock range	50Hz system: 45Hz– 55Hz; 60Hz system: 54Hz – 66Hz	
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	
Output		
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	
Battery and charger		
EBM	UPS without built-in battery	
EBM number	maximum 6 (each EBM comes with 2 rows of 192V batteries)	
Battery voltage	±192V adjust*	
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; Derating to 60% at 1-1 mode	
Parallel mode	maximum 3 (built-in parallel board)	
Interface		
Display	Touchscreen color LCD (with gravity sensor)	
Connectivity port	RS232 DB9; USB 2.0 type-B; programmable dry in/out; Intelligent slot	

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	≤55dB	
Warranty time	3 years	
Certification		
Safety	CE / TLC / RCM	
Energy saving	CQC	
EBM		
Dimension (H*W*D)	129mm*438*589mm	
Net weight (Kg)	EBM*2 (±192V): 103.6	
MBP (maintenance bypass)		
Dimension (H*W*D)	129mm*438*489mm	
Net weight (Kg)	21.5	

* Standard bundle is 1 power module + 2 EBM.

Part number

Model	9SX15K	9SX20K
Product description	Part number	
UPS power module	9SX15KPM	9SX20KPM
External battery module 384V	9SXEBM384RT6U	
MBP standard version	MBP20KPDU	
MBP 1+1 parallel version	MBP20KPARA	
Gigabit network card	Network-M2	
Industrial gateway card	INDGW-M2	
Environmental monitoring probe	EMPDT1H1C2	

Backup time table

Model		15K	20K
EBM quantity	Load	Backup time(Min)	Backup time(Min)
1 EBM (2*192V batteries)	100%	2.8	1.8
	75%	4.2	2.8
	50%	9.8	7.2
	25%	25.3	18.5
2 EBM (2*2*192V batteries)	100%	10.1	6.3
	75%	15.2	10.1
	50%	25.5	18.7
	25%	65.6	48.2
3 EBM (3*2*192V batteries)	100%	19.3	12.5
	75%	28.9	19.3
	50%	49.4	31.5
	25%	129.2	72.5
4 EBM (4*2*192V batteries)	100%	29.2	18.5
	75%	43.7	29.2
	50%	75.6	49.3
	25%	200.0	97.6

