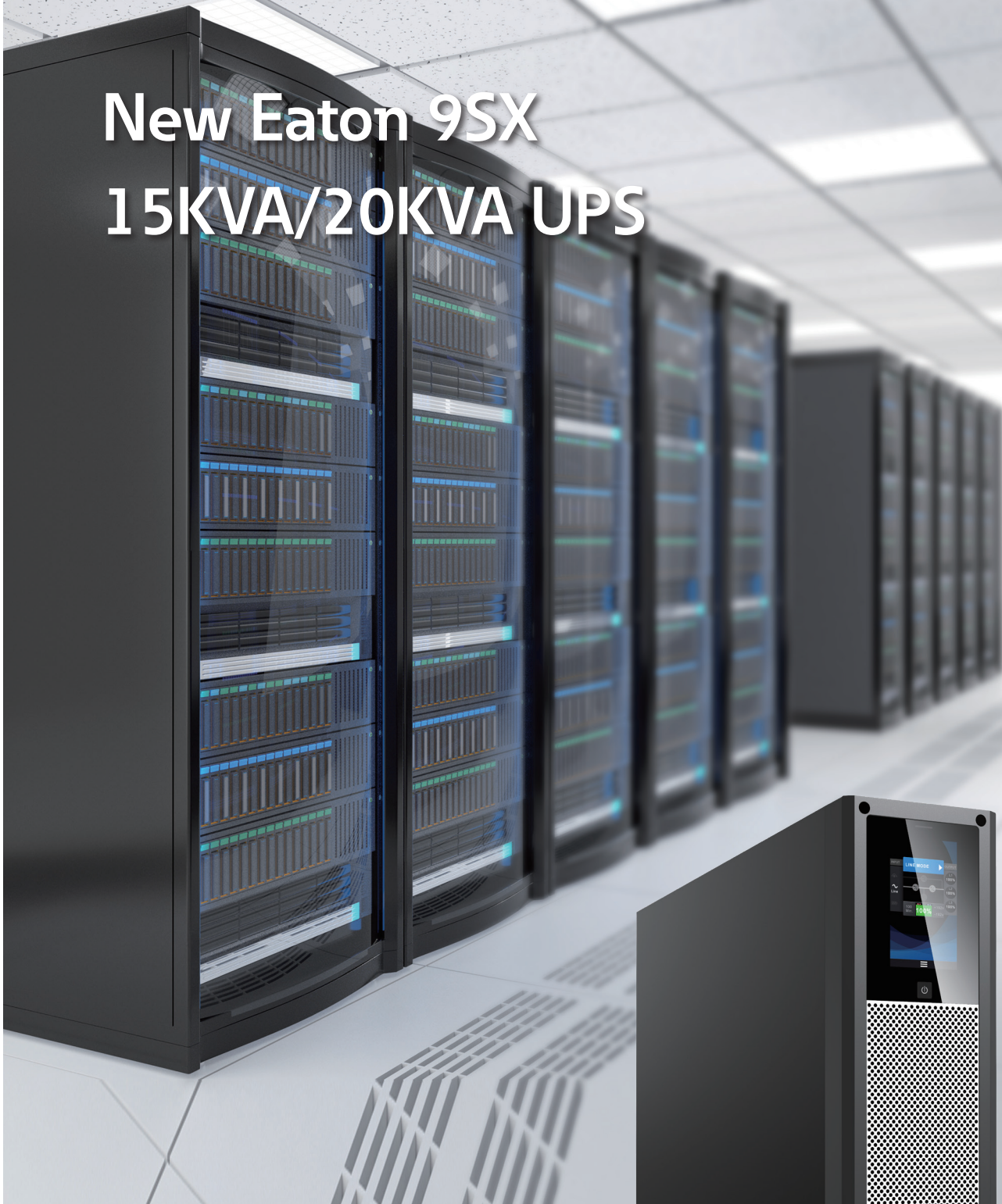


New Eaton 9SX 15KVA/20KVA UPS

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**EATON**

*Powering Business Worldwide*

# New Eaton 9SX 15KVA/20KVA UPS

New Eaton 9SX 15K/20K UPS provide stable power for critical IT infrastructure device Industrial, Manufacturing and Medical device. New product use advanced technology to improve the double conversion efficiency and reduce the dimension. It helps user save both electricity bill and rack space cost. New product enhances robust design for hash environment and load. Reduce the application limited and expand the application area.



IT infrastructure (High-density Racks)



Industrial & Manufacturing



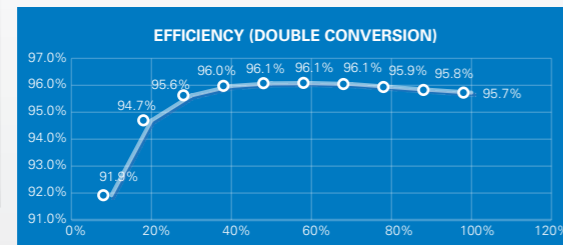
Medical Applications

## Key feature



### High efficiency

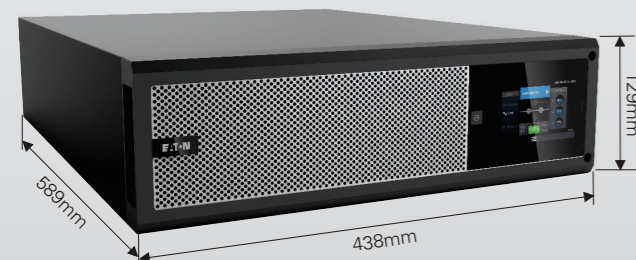
Double conversion mode efficiency can up to 96%.



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

### High power density

- The 15KVA/20KVA power model is only 3U height save rack space.
- Short depth is available for 800mm or more deep rack cabinet.
- The width is 438mm, available for standard 19" rack cabinet.



9SX reduced space with same power rating, help IT Managers save space cost.

### 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

Wide array of electrical environment  
Input and output wiring can both be connected as 3 phase or 1 phase

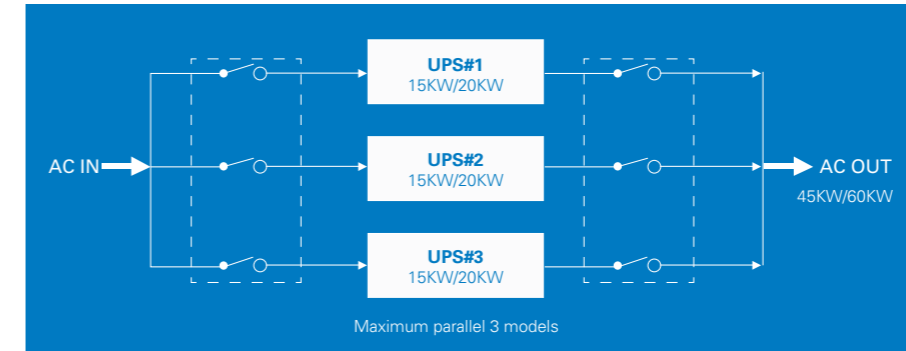
#### 3-3, 3-1, 1-1 mode

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

All wiring mode is one SKU. Use copper jumper to connect.

### Parallel operation

Redundancy and expand power rating



### ESS mode

Consider both energy saving and output break time

Efficiency can up to **98.8%**. break time less than 2ms at ESS mode.

### 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. The range is 0~13A. Better for both large or small battery capacity recharge.

### Endure harsh environment

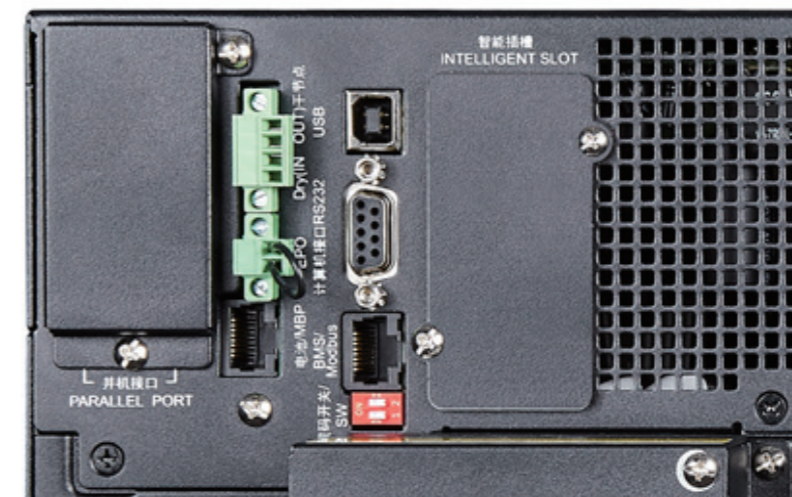
Operation temperature can up to 50 °C.

Maximum operation altitude can 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



### Colorful, touch and big screen LCD

Build in gravity sensor to rotate the screen for rack installation 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

Provide load segment control enables prioritized shutdown of nonessential equipment to maximize battery runtime for critical devices



Normally 1 UPS+ 1 MBP. 3 UPS parallel need 3 MBP

Consider most of parallel mode is 1+1, 9SX also provide 1+1 parallel version MBP for user easy wiring



### EBM

9SX 15K/20K power module has no internal battery. At least work with 1 group EBM



## Connectivity card



### Network-M2

Giga bit network card.



### INDGW-M2

Giga bit Modbus card.



### EMPDT1H1C2

Environment detection card. Monitor 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>		
EBM	UPS without build in battery. 2 EBM default.	
EBM number	maximum 6*2	
Battery voltage	±192V~±240V adjust*	
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 (build in parallel board)	
<b>Interface</b>		
Display	colorful touch LCD (with gravity sensor)	
Connectivity port	RS232 DB9; USB 2.0 type-B; programable dry in/out; Intelligent slot	

## 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	≤55dB	
Warranty time	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)	EBM*2 (±192V): 103.6 EBM*2 (±240V)*: 124.2	
<b>MBP (maintenance bypass)</b>		
Dimension (H*W*D)	129mm*438*489mm	
Net weight (Kg)	21.5	

\* The EBM and external battery voltage are different for different region, please contact region sales for more detail information.

## Part number

Model	9SX15K	9SX20K
<b>Product description</b>	<b>Part number</b>	
UPS power module for China	9SX15KPMCH	9SX20KPMCH
UPS power module for ANZ	9SX15KPMAU	9SX20KPMAU
UPS power module for other	9SX15KPM	9SX15KPM
External battery module 384V	9SXEBM384RT6U	
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

Problems		15K	20K
EBM quantity	Load	Backup time(Min)	Backup time(Min)
1 group (2*192V EBM)	100%	2.8	1.8
	75%	4.2	2.8
	50%	9.8	7.2
	25%	25.3	18.5
2 group (2*2*192V EBM)	100%	10.1	6.3
	75%	15.2	10.1
	50%	25.5	18.7
	25%	65.6	48.2
3 group (3*2*192V EBM)	100%	19.3	12.5
	75%	28.9	19.3
	50%	49.4	31.5
	25%	129.2	72.5
4 group (4*2*192V EBM)	100%	29.2	18.5
	75%	43.7	29.2
	50%	75.6	49.3
	25%	200.0	97.6
1 group (2*240V EBM)	100%	3.8	2.4
	75%	5.7	3.8
	50%	13.5	9.6
	25%	35.0	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



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