

MS SERIE MODULAR
10-90kVA
(380V/400V/415V)



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The rack modular, scalable, hot-swappable, online double conversion UPS ranging from 10 to 90kVA, with its flexible configuration of 3/3, 3/1 and 1/1, compact structure, is the ideal choice for small and medium data center.



Features

Rack modular design

Modular design, compatible with 19" standard rack cabinet, convenient to be integrated with servers

High power density

10/15kVA power module in 2U height, saving great amount of space, easy for capacity expansion

Integrated solution for data center

UPS can be integrated with battery cabinet, PDU and external maintenance bypass, offering excellent choice for data center

Intelligent charging management

The system intelligently control the whole process of the charging and discharging, effectively improving the life time of the battery

Flexible configuration

The system can be configured to 3/3, 3/1 and 1/1 without derating

Friendly interface

7" touch color LCD with graphic display, more information displayed and easier for customer to operate

Smart sleep function

System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency

Self-aging mode

Energy internal circle technology, system can run with full load ,saving more than 90% energy

Efficiency 96%

Specification

MODEL	MS 060/10X	MS 040/10X	MS 030/10X	MS 020/10X	MS 090/15X	MS 045/15X	MS 030/15X	
Capacity	60kVA/60kW	40kVA/40kW	30kVA/30kW	20kVA/20kW	90kVA/90kW	45kVA/45kW	30kVA/30kW	
Power module	PM10X(10kVA/10kW)				PM15X(15kVA/15kW)			
INPUT								
Phase	3P+ N + G (380/400/415V)							
Voltage range	304-478Vac (line-line),100% load; 228-304Vac, load derated linearly							
Frequency range	40Hz-70Hz							
Power factor	>0.99							
THDi	THDi<4% @ 100% linear load							
OUTPUT								
Voltage	3 phase:380/400/415V 1 phase:220/230/240V							
Voltage regulation	1.5%							
Power factor	1.0							
THDu	THD<1% (linear load) ,THD<5.5% (non-linear load)							
Crest factor	3:1							
Overload capability	110% for 1 hour; 125% for 10 min ; 150% for 1 min ; > 150% for 200 ms							
BATTERY								
Voltage	±240VDC							
Charge Power	20%*System Power							
Charge voltage precision	±1%							
SYSTEM								
System efficiency	Normal mode:95% ; ECO mode:98% ; Battery mode:94.5%							
Display	7.0" Color touch screen LCD + LED + Keyboard							
IP Class	IP20							
Interface	Standard : RS232,RS485,Dry contacts; Optional: SNMP							
Operation/Storage temperature	0-40℃ / - 25-70℃							
Relative humidity	0-95% (non-condensing)							
Noise	56dB @ 50% load (1 meter away)							
PHYSICAL								
Weight	Cabinet	85kg	51kg	55kg	42kg	85kg	55kg	42kg
	Power Module	15.3kg				15.5kg		
Dimension (W*D*H) (mm)	Cabinet	485*751*1033 (21U)	485*697*575 (11U)	485*751*575 (11U)	485*697*398 (7U)	485*751*1033 (21U)	485*751*575 (11U)	485*697*398 (7U)
	Power Module	436*590*85 (2U)						