

// Mars II Redundancy On-Line UPS

/ MSII 4.5-20KVA



■ MS II 10KVA 3/1



■ MSII15/20KVA

- Simple Parallel Installation
- Full-time Digital Signal Processor Control
- Programmable Frequency Converter
- LCD/LED Mimic Panel
- Multi-Mode Operation
- Simple and Easy to Use
- Parallel Redundancy
- Optional Galvanic Isolation Transformer
- Optional Hot Swappable Battery

Battery Bank Specifications

UPS model	Code	Bat. Type	Max. Quantity	Dimensions (WxHxD, mm/ inch)
MSII 4.5K / 6KVA	T40JXX07	7AH	40	290x748x631 / 11.4x29.5x24.8
MSII 4.5K / 6KVA	T60JXX07	7AH	60	290x748x631 / 11.4x29.5x24.8
MS II 8K / 10KVA	T40NXX09	9AH	40	290x748x631 / 11.4x29.5x24.8
MS II 8K / 10KVA	T60NXX09	9AH	60	290x748x631 / 11.4x29.5x24.8
MSII15KVA / 20KVA	T60VXX09	9AH	60	290x748x631 / 11.4x29.5x24.8
MSII15KVA / 20KVA	T40VXX12	12AH	40	290x748x631 / 11.4x29.5x24.8

MSII 4.5-20K Specifications

Model		MSII4500	MSII6000	MSII8000 8000P	MSII10000 10000P	MSII15000	MSII20000	
Input	Voltage **	160~280Vac		160~280Vac (1Φ) / 277~485Vac (3Φ)		277~485Vac(3Φ)		
	Frequency	45 ~ 65 Hz (Auto Sensing)						
	Phase	Single + G		Single + G Three + G		Three + G		
	Power Factor ****	1Φ/1Φ model: Up to 0.99 @ linear load 3Φ/1Φ model: Up to 0.95 @ linear load						
Output	Voltage ****	200/208/220/230/240Vac Selectable(208/120Vac optional)						
	Capacity	4050W	5400W	7200W	9000W	13500W	18000W	
	Frequency (Battery Mode)	±1Hz or ±3Hz (Selectable)						
	Crest Factor	3:1 Acceptable						
	Harmonic Distortion	< 3% at Linear Load						
	Output Waveform	Pure Sine Wave						
	Transfer Time (AC to DC)	0ms						
	Efficiency	Up to 91%		Up to 92%		Up to 93%		
	DC Start	Yes						
	Battery	Number of Batteries	20pcs					
Type		Sealed Lead Acid Maintenance Free						
Capacity		12V/7AH			12V/9AH		N/A	
Rated Battery Voltage		240Vdc						
Recharge Time (90%)		5 hours				N/A		
Display	Status On LED + LCD	Line Mode / Backup Mode / ECO Mode / Bypass Supply / Battery Low / Battery Fault / Overload / Transferring with Interruption / UPS Fault						
	LCD	Input Voltage / Input Frequency / Output Voltage / Output Frequency / Load Percentage / Battery Voltage / Temperature						
	Self-Diagnostics	Upon Power-on / Front Panel Setting & Software Control / 24-hour routine checking						
Alarms	Audible and Visual	Line Failure / Battery Low / Transfer to Bypass, System Fault Conditions						
Protection	Overload Capacity	Inverter Supply: 105%~150% for 160 seconds ~ 2 cycles before switching bypass. Bypass Supply: 105%~200% for 500 seconds ~8 cycles before stopping supply load.						
	Short Circuit	Breaker, Fuse / Electronic Circuit						
	EPO	Output Shutdown immediately						
	Over Temperature	Bypass or Shutdown Immediately						
Physical	Dimensions (WxHxD, mm/ inch)	w/o transformer	290x748x645 / 11.4x29.5x25.4			290x748x645 / 11.4x29.5x25.4		
		with transformer	290x748x645 / 11.4x29.5x25.4		290x881x645 / 11.4x34.7x25.4		N/A	
	Weight (kgs/lbs) ***	86 / 190		8K: 87 / 192 8KP: 92 / 203	10K: 96 / 215 10KP: 101 / 223		60 / 132.2	
Environmental	Operating Temperature	0 to 40°C / 32 to 104 °F						
	Noise Level	<50dBA				<52dBA		
	Altitude	1000m/3300ft without De-Rating						
	Interface	0 to 90% (Without Condensation)						
Interface	Interface Type	Standard RS232 ,EPO						
	Communication Slot	Option: 2nd RS232, USB, RS485, Dry Contact Relay, SNMP/WEB Card						
	Compatible Platforms	Microsoft Windows series, Linux, Mac, etc.						
Standards and Certifications ****	Safety	EN62040-1, UL1778						
	EMC	EN62040-2, EN61000-3-2, EN61000-3-3, FCC Class A						
	Markings	CE, cUL, UL FCC						

* Specifications subject to change without notice.

** Based on load percentage

*** Isolation transformer : net weight plus 53kg for 6000VA, 10000VA

Hot-Swappable : net weight plus 26kg for 6000VA, 10000VA

**** Depending on the model and voltage, more information please contact with AblereX

