

# // Mars II Redundancy On-Line UPS / MSII 4.5-10KVA



- Simple Parallel Installation
- Full-time Digital Signal Processor Control
- Programmable Frequency Converter
- LCD/LED Mimic Panel
- Smart ECO Mode
- Simple and Easy to Use
- Power Range and Runtime Scalability
- Optional Galvanic Isolation Transformer
- Optional Hot Swappable Battery

## Battery Bank

UPS model	Code	Bat. Type	Max. Quantity	Dimension (WxHxD mm)
MSII 4.5K / 6KVA	T40JXX07	7AH	40	748x290x631
MSII 4.5K / 6KVA	T60JXX07	7AH	60	748x290x631
MS II 8K / 10KVA	T40NXX09	9AH	40	748x290x631
MS II 8K / 10KVA	T60NXX09	9AH	60	748x290x631

## MSII 4.5-10K Specifications

Model	MSII4500		MSII6000		MSII8000 / 8000P		MSII10000 / 10000P	
Input	Voltage	160~280Vac			160~280Vac (1Φ) / 277 ~ 485Vac (3Φ)**			
	Frequency	45 ~ 65 Hz						
	Phase	Single, Line + Neutral + Ground			Single, Line + Neutral + Ground; Three, R, S, T + Neutral + Ground			
	Power Factor	Up to 0.99 at Linear Load						
Output	Voltage	200/208/220/230/240Vac Selectable(208/120Vac optional)						
	Capacity	4500VA / 4050W		6000VA / 5400W		8000VA / 7200W		10000VA / 9000W
	Frequency (Battery Mode)	±1Hz or ±3Hz (Selectable)						
	Crest Factor	3:1						
	Harmonic Distortion	< 3% at Linear Load						
	Output Waveform	Pure sine wave						
	Transfer Time (AC to DC)	0ms						
	Efficiency	up to 90% (Line Mode)						
	DC Start	Yes						
	Battery	Number of batteries	20pcs					
Type		Sealed Lead Acid Maintenance Free						
Capacity		12V/7AH					12V/9AH	
Rated Battery Voltage		240Vdc						
Recharge Time + 90%		5 hours						
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	Output Breaker / Electronic Circuit						
	EPO	Output shuts down immediately						
	Over Temperature	Normal Mode : Transfer to Bypass Mode						
		Battery Mode : UPS shuts down immediately						
Physical	Dimensions WxHxD(mm)	without transformer	290x748x645					
		With transformer	290x748x645			290x881x645		
	Weight (without transformer)	Standard Unit/ Hot Swappable unit	86kgs		8K: 87kgs; 8KP: 92kgs		10K: 96kgs 10KP: 101kgs	
	Weight (with transformer)	Standard Unit/ Hot Swappable unit	120kgs		8K: 140kgs; 8KP: 145kgs		10K: 149kgs 10KP: 154kgs	
Environmental	Operating Temperature	0 to 40 °C						
	Noise Level	<50dBA						
	Altitude	2000 m without de-rating						
	Humidity	0 to 90% (Without condensation)						
Interface	Interface Type	Standard RS232 Interface						
	Communication Slots	2nd RS232, USB, RS485, Relay Contact, SNMP/WEB Card, etc.						
	Compatible platforms	Microsoft Windows series, Linux, Mac, etc.						
Standards and certifications	Safety	EN62040-1-1, UL1778						
	EMC	EN62040-2, EN61000-3-2, EN61000-3-3, FCC Class A						
	Markings	CE, cUL, UL ***						

\*Specifications subject to change without notice.

\*\*Based on load percentage

