

Mars II Series

Redundancy On-Line UPS Tower model

MSII 4500VA~20000VA



- Simple Parallel Installation
- Full-time Digital Signal Processor Control
- Frequency Converter Operation Mode
- Smart ECO Mode
- LCD Mimic Panel
- Power Range and Runtime Scalability
- Maintenance Bypass Switch Embedded
- Optional Galvanic Isolation Transformer
- Optional Hot Swappable Battery
- Compact Design



■ MSII 10000VA 3/1



■ MSII 15/20000VA



■ MINI TOWER 6/10000VA

Specifications

Model	MSII4500	MSII6000	MSII8000 / 8000P	MSII10000 / 10000P	MSII 15000	MSII 20000	
Input	Voltage		160~280Vac(1Φ)		160~280Vac(1Φ) / 277~485Vac(3Φ)**		
	Frequency		45 ~ 65 Hz				
	Phase		1Φ, Line + Neutral + Ground		1Φ, Line + Neutral + Ground; 3Φ, R, S, T + Neutral + Ground		
	Power Factor		Up to 0.99(1Φ) / 0.95(3Φ) at Linear Load				
Output	Voltage						
	200/208/220/230/240Vac Selectable(208/120Vac optional)						
	Capacity		4050W	5400W	7200W	9000W	13500W
	Frequency (Battery Mode)		±1Hz or ±3Hz (Selectable)				
	Current Crest Ratio		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) Yes Up to 90% (without Transformer)				
	DC Start		Up to 90% (Line Mode) Yes Up to 90% (without Transformer)				
Battery	Number of batteries						
	20pcs						
	Type						
	Sealed Lead Acid Maintenance Free						
	Capacity		12V/5AH or 12V/7AH	12V/7AH	12V/9AH	N/A	
Rated Battery Voltage		240Vdc					
Recharge Time + 90%		5 hours					
Status On LED + LCD		Line Mode / Backup Mode / ECO Mode / Bypass Supply / Battery Low / Battery Fault / Overload / Transferring with interruption / UPS Fault					
Display	LCD						
	Input Voltage / Input Frequency / Output Voltage / Output Frequency / Load Percentage / Battery Voltage / Temperature						
Alarms	Self-Diagnostics						
	Upon Power-on / Front Panel Setting & Software Control / 24-hour routine checking						
Protection	Audible and Visual						
	Line Failure / Battery Low / Transfer to Bypass, System Fault Conditions						
	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						
PHYSICAL Tower model	Breaker / Electronic Circuit						
	EPO						
	Output shutdown immediately						
	Normal Mode : Transfer to Bypass Mode						
	Over Temperature						
	Battery Mode : UPS shuts down immediately						
	Dimensions		w/o transformer		290x748x645 / 11.4x25.4x29.5		
	(WxHxD,mm/inch)		with transformer		290x748x645 / 11.4x25.4x29.5		
	Weight (kg/lbs)		Standard Unit/		8K:87/192		
	(w/o transformer)		Hot Swappable unit		10K: 96/215		
Weight (kg/lbs)		Standard Unit/		8K:92/202.4			
(with transformer)		Hot Swappable unit		10K: 101/223			
Weight (kg/lbs)		Standard Unit/		8K:140/308			
(with transformer)		Hot Swappable unit		10K: 149/327.8			
Weight (kg/lbs)		Standard Unit/		8K:145/319			
(with transformer)		Hot Swappable unit		10K: 154/228.8			
Dimensions		220x440x658 / 8.66x17.3x25.9					
(WxHxD,mm/inch)							
Weight		69.5/153.2		74.5/164.3			
(kg/lbs)		(7AHx20)		(9AHx20)			
Dimensions		N/A		290x615x645 / 11.4x24.2x25.4			
(WxHxD,mm/inch)		N/A		290x748x524 / 11.4x29.4x20.6			
Weight		N/A		96/211.6			
(kg/lbs)		N/A		(9AHx20)			
Operating Temperature		0~40°C / 32~104°F					
Noise Level (1m front)		<50dBA					
Altitude		1000m / 3280ft without Derating					
Humidity		20%~90%RH (Without condensation)					
Interface Type		Standard RS232 Interface		Standard RS232, EPO			
Communication Slots		2 nd RS232, USB, RS485, Relay Contact, SNMP/WEB Card, etc.					
Compatible platforms		Microsoft Windows series, Linux, Mac, etc.					
Safety		EN62040-1-1, UL1778					
EMC		EN62040-2, EN61000-3-2, EN61000-3-3, FCC Class A					
Markings		CE, cUL, UL ***					

Battery Bank Specifications

UPS model	Code	Bat. Type	Max. Quantities	Dimensions (WxHxD, mm/inch)
MSII 4500 / 6000VA	T40JXX07	7AH	40	290x748x631 / 11.4x29.4x24.8
MSII 4500 / 6000VA	T60JXX07	7AH	60	290x748x631 / 11.4x29.4x24.8
MS II 8000 / 10000VA	T40NXX09	9AH	40	290x748x631 / 11.4x29.4x24.8
MS II 8000 / 10000VA	T60NXX09	9AH	60	290x748x631 / 11.4x29.4x24.8
MSII15000VA / 20000VA	T60VXX09	9AH	60	290x748x631 / 11.4x29.4x24.8
MSII15000VA / 20000VA	T40VXX12	12AH	40	290x748x631 / 11.4x29.4x24.8

* Specifications subject to change without notice.

** Based on load percentage.

*** Depending on the model and voltage, Please contact Ablerex for more information.

**** The same technical specification may be sold in different countries under different model names, please consult Ablerex for more information.

