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)**		277~485Vac(3Φ)**	
	Frequency	45 ~ 65 Hz					
	Phase	1Φ, Line + Neutral + Ground		1Φ, Line + Neutral + Ground; 3Φ, R, S, T + 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	18000W
	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						
	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				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 / Electronic Circuit					
	EPO	Output shutsdown immediately					
	Over Temperature	Normal Mode : Transfer to Bypass Mode					
		Battery Mode : UPS shuts down immediately					
PHYSICAL Tower model	Dimensions (WxHxD,mm/inch) w/o transformer	290x748x645 / 11.4x25.4x29.5				290x748x645 / 11.4x25.4x29.5	
	Dimensions (WxHxD,mm/inch) with transformer	290x748x645 / 11.4x25.4x29.5		290x881x645 / 11.4x25.4x34.7		290x1014x645 / 11.4x25.4x39.9	
	Weight (kg/lbs) (w/o transformer) Standard Unit/	86/190		8K:87/192	10K: 96/215	60/132	
	Weight (kg/lbs) (w/o transformer) Hot Swappable unit			8KP:92/202.4	10KP: 101/223		
	Weight (kg/lbs) (with transformer) Standard Unit/	120/264		8K:140/308	10K: 149/327.8	130/286	
	Weight (kg/lbs) (with transformer) Hot Swappable unit			8KP:145/319	10KP: 154/228.8		
PHYSICAL Mini Tower Model 1Φ/1Φ	Dimensions (WxHxD,mm/inch)	220x440x658 / 8.66x17.3x25.9				N/A	
	Weight (kg/lbs)	69.5/153.2 (7AHx20)		74.5/164.3 (9AHx20)		N/A	
PHYSICAL Mini Tower model 3Φ/1Φ	Dimensions (WxHxD,mm/inch)	N/A		290x615x645 / 11.4x24.2x25.4		290x748x524 / 11.4x29.4x20.6	
	Weight (kg/lbs)	N/A		96/211.6 (9AHx20)		41/90.4	
Environmental	Operating Temperature	0~40°C / 32~104°F					
	Noise Level (1m front)	<50dBA				<60dBA	
	Altitude	1000m / 3280ft without Derating					
	Humidity	20%~90%RH (Without condensation)					
Interface	Interface Type	Standard RS232 Interface				Standard RS232, EPO	
	Communication Slots	2nd RS232, USB, RS485, Relay Contact, SNMP/WEB Card, etc.					
	Compatible platforms	Microsoft Windows series, Linux, Mac, etc.					
Standard and Certifications	Safety	EN62040-1-1, UL1778				EN62040-1-1	
	EMC	EN62040-2, EN61000-3-2, EN61000-3-3, FCC Class A				EN62040-2	
	Markings	CE, cUL, UL ***				CE	

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 precentage.
*** 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.