

# Mars II Series

## Convertible Redundancy On-Line UPS

MSII RT 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



■ Battery Bank



■ MSII 10000VA RT

### Specifications

Model	MSII4500RT	MSII6000RT	MSII6000C	MSII8000RT / 8000PRT	MSII10000RT / 10000PRT	MSII10000C	MSII 15000RT	MSII 20000 RT	
<b>Input</b>	Voltage			160~280Vac		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				Up to 0.95 at Linear Load	
	Voltage			200/208/220/230/240Vac Selectable(208/120Vac optional)				220/230/240Vac Selectable	
	Capacity	4050W	5400W	7200W	9000W	13500W	18000W		
	Frequency (Battery Mode)			±1Hz or ±3Hz (Selectable)					
	Current Crest Ratio			3:1					
<b>Output</b>	Harmonic Distortion			< 3% at Linear Load					
	Output Waveform			Pure Sine Wave					
	Transfer Time (AC to DC)			0ms					
	Efficiency			90%		91%			
	DC Start			Yes					
<b>Battery</b>	Number of batteries			20pcs (without Battery in RT power module type)					
	Type			Sealed Lead Acid Maintenance Free					
	Capacity	12V/7AH	12V/5AH	12V/9AH					
	Rated Battery Voltage			240Vdc					
	Recharge Time	N.A.	N.A.	4 hours to 90%	N.A.	N.A.	4 hours to 90%	N.A.	
	Status On LED + LCD			Line Mode, Backup Mode, ECO Mode, Bypass Supply, Battery Low, Battery Bad/Disconnect, Overload, and Transferring with interruption & UPS Fault.					
<b>Display</b>	Readings on LCD			Input Voltage, Input Frequency, Output Voltage, Output Current, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature.					
	Self-Diagnostics			Upon Power-on, Front Panel Setting & Software Control, 24-hour routine checking					
<b>Alarms</b>	Audible and Visual			Line Failure, Battery Low, Transfer to Bypass, System Fault Conditions					
	Overload Capacity			Inverter Supply: 105%~150% for 160 sec. ~ 2 cycles before switching bypass.		105%~150% for 600sec. ~ 1 sec.before switching bypass.			Bypass Supply: 105%~200% for 500 sec. ~8 cycles before stopping supply load.
									105%~150% for 600sec. ~ 1 sec.before stopping supply load.
<b>Protection</b>	Short Circuit			Output Breaker/Electronic Circuit					
	EPO			Output shuts down immediately					
	Over Temperature			AC Mode: Switch to Bypass / Backup Mode: Switch off the UPS					
<b>Physical</b>	Dimensions (WxHxD, mm/inch)	440x88x680/17.3x3.5x26.8	440x176x680/17.3x6.9x26.8	440x132x680/17.3x5.2x26.8	440x264x680/17.3x10.3x26.8	440x220x720/ 17.3x8.6x28.2			
	ODIN: Dimensions (Short Version)	440x132x550/17.3x5.2x21.6 (ODIN)	440x176x680/17.3x6.9x26.8	440x132x680/17.3x5.2x26.8	440x264x680/17.3x10.3x26.8	440x220x720/ 17.3x8.6x28.2			
	Weight (kg/libbs)	24/52.9	52/114.6	45/99.2(8K/10KRT)	50/110.2 (8K/10KRTP)	96/211.2	36/79.2		
	ODIN: Weight (Short version)	17.5/38.5 (ODIN)	52/114.6	45/99.2(8K/10KRT)	50/110.2 (8K/10KRTP)	96/211.2	36/79.2		
	Operating Temperature			0~40°C/ 32~104°F					
<b>Environmental</b>	Noise Level			<50dBA			<60dBA		
	Altitude			1000m / 3280ft without Derating					
	Humidity			20%~95%RH (Without condensation)					
<b>Interface</b>	Interface Type			Standard RS232			Standard RS232 & EPO		
	Communication Slots			2 <sup>nd</sup> RS232, USB, RS485, Relay Contact, SNMP/WEB Card					
	Compatible Platforms			Microsoft Windows series, Linux, Mac, etc.					
<b>Standards and Certifications</b>	Safety Standard			EN62040-1-1, UL1778			EN62040-1-1		
	EMC Standard			EN62040-2, EN61000-3-2, EN61000-3-3, FCC Class A			EN62040-2		
	Marks			CE, cUL, UL****			CE		

### Battery Bank Specifications

UPS mode	Code	Bat. Type	Max. Quantities	Dimensions (HxWxD, mm/inch)
MSII RT 4500 / 6000VA	C20J3U07	7AH	20	132x440x680 / 5.2x17.3x26.8
MSII RT 8000 / 10000VA	C20N3U09	9AH	20	132x440x680 / 5.2x17.3x26.8
MSII RT 4500 / 6000VA (ODIN)	C20J4U07	7AH	20	176x440x550 / 6.9x17.3x21.7
MSII RT 8000 / 10000VA (ODIN)	C20N4U09	9AH	20	176x440x550 / 6.9x17.3x21.7
MSII RT 15000 / 20000VA	C20V3U09	9AH	20	132x440x680 / 5.2x17.3x26.8

\* Specifications subject to change without notice.

\*\* Based on load percentage.

\*\*\* Standard configuration - back-up time at 70% of the load.

\*\*\*\* 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.

