Mars II Series

Convertible Redundancy On-Line UPS

MSII RT 4.5KVA~20KVA

- 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 10KVA RT

Specifications

Model		MSII4500RT	MSII6000RT	MSII6000C	MSII8000RT / 8000PRT	MSII10000RT / 10000PRT	MSII10000C	MSII 15000RT	MSII 20000 RT
Input	Voltage	160~280Vac			160~280Vac (1Φ) / 277 – 485Vac (3Φ)**			190Vac ~ 486Vac (3Φ)**	
	Frequency	45 ~ 65 Hz						45 ~ 70Hz	
	Phase	Single + G			Single / Three + G			Three + G	
	Power Factor	Up to 0.99 at Linear Load						Up to 0.95 at Linear Load	
Output	Voltage	200/208/220/230/240Vac Selectable(208/120Vac optional)						220/230/240Vac Selectable	
	Capacity	4050W	5400W		6300W	9000W	9000W	13500W	18000W
	Frequency (Synchronized Range)	±1Hz or ±3Hz (Selectable)							
	Frequency (Battery Mode)	±0.1% unless synchronized to line							
	Current Crest Ratio	3:1							
	Harmonic Distortion	< 3% (at full linear load)							
	Output Waveform	Pure Sine Wave							
	Transfer Time (AC to DC)	0ms							
	Efficiency	90%						91%	
	DC Start	Yes							
Battery	Number of batteries	20pcs						16 or 20pcs	
	Type	Sealed Lead Acid Maintenance Free							
	Capacity	12V/7AH		12V/5AH	12V/9AH			12V/9AH	
	Rated Battery Voltage	240Vdc						192 or 240Vac	
	Backup time	N.A.	N.A.	> 3 mins. ***	N.A.	N.A.	> 5 mins. ***	N.A.	N.A.
	Recharge Time	N.A.	N.A.	4 hours to 90%	N.A.	N.A.	4 hours to 90%	N.A.	N.A.
Display	Status On LED + LCD	Line Mode, Backup Mode, ECO Mode, Bypass Supply, Battery Low, Battery Bad/Disconnect, Overload, and Transferring with interruption & UPS Fault.							
	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							
Alarms	Audible and Visual	Line Failure, Battery Low, Transfer to Bypass, System Fault Conditions							
Protection	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.	
	Short Circuit	Output Breaker/Electronic Circuit							
	EPO	Output shuts down immediately							
	Over Temperature	AC Mode: Switch to Bypass / Backup Mode: Switch off the UPS							
Physical	Dimensions (WxHxD,mm/inch)	440x88x680/17.3x3.5x26.8 440x132x550 (ODIN) 17.3x5.2x21.6		440x176x680/ 17.3x6.9x26.8	440x132x680/ 17.3x5.2x26.8		440x264x680/ 17.3x10.3x26.8	440x220x720/ 17.3x8.6x28.3	
	Weight(kg/lbs)	24/52.9 17.5/38.5 (ODIN)		52/114.6	45/99.2(8K/10KRT) 50/110.2 (8K/10KRTP)		96/211.2	36/79.2	
Environmental	Operating Temperature	0~40°C / 32~104°F							
	Noise Level	<50dBA						<60dBA	
	Altitude	2000m/6500ft without de-rating							
	Humidity	0 to 90% (Without condensation)							
Interface	Interface Type	Standard RS232						Standard RS232 & EPO	
	Communication Slots	2nd RS232, USB, RS485, Relay Contact, SNMP/WEB Card							
	Compatible Platforms	Microsoft Windows series, Linux, Mac, etc.							
Standards and Certifications	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 4.5K / 6KVA	C20J3U07	7AH	20	132x440x680 / 5.2x17.3x26.8
MSII RT 8K / 10KVA	C20N3U09	9AH	20	132x440x680 / 5.2x17.3x26.8
MSII RT 4.5K / 6KVA (ODIN)	C20J4U07	7AH	20	176x440x550 / 6.9x17.3x21.7
MSII RT 8K / 10KVA (ODIN)	C20N4U09	9AH	20	176x440x550 / 6.9x17.3x21.7
MSII RT 15 / 20KVA	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.