

// Mars II

Convertible Redundancy On-Line UPS / MSII RT 4.5-20KVA



- Rack/Tower Convertible Design
- Simple Parallel Installation
- Full-time Digital Signal Processor Control
- LCD/LED Mimic Panel
- Multi-Mode Operation
- Simple and Easy to Use
- Optional Galvanic Isolation Transformer



■ MSII10000RT

Battery Bank Specifications

UPS model	Code	Bat. Type	Max. Quantity	Dimensions (WxHxD, mm/inch)
MSII RT 4.5K / 6KVA	C20J3U07	7AH	20	440x132x680 / 17.3x5.2x26.8
MSII RT 8K / 10KVA	C20N3U09	9AH	20	440x132x680 / 17.3x5.2x26.8
MSII RT 4.5K / 6KVA (ODIN)	C20J4U07	7AH	20	440x176x550 / 17.3x6.9x21.6
MSII RT 8K / 10KVA (ODIN)	C20N4U09	9AH	20	440x176x550 / 17.3x6.9x21.6
MSII RT 15 / 20KVA	C20V3U09	9AH	20	440x132x680 / 17.3x5.2x26.8

Transformer Specifications

UPS model	Code	Weight (kgs/lbs)		Dimensions (WxHxD, mm/inch)
		w/MTBS*	w/o MTBS*	
MSII RT 4.5K / 6KVA	MSII6000RT-GTM	42/92.5	41/90.3	440x88x660 / 17.3x3.5x26.0
MSII RT 8K / 10KVA	MSII10000RT-GTM	49/108.0	48/105.8	440x132x660 / 17.3x5.2x26.0

MSII RT 4.5-20K Specifications

Model	MSII4.5K RT	MSII6K RT	MSII6KC	MSII8K RT MSII8K PRT	MSII10K RT MSII10K PRT	MSII10KC	MSII15KRT	MSII20K RT	
Input	Voltage **	160~280Vac			160~280Vac (1Φ) / 277 ~ 485Vac (3Φ)		190Vac ~ 485Vac (3Φ)		
	Frequency	45 ~ 65 Hz (Auto Sensing)					45 ~ 70Hz (Auto Sensing)		
	Phase	Single + G			Single / Three + G		Three + G		
	Power Factor ****	1Φ/1Φ Model: Up to 0.99 @ Linear Load 3Φ/1Φ Model: Up to 0.95 @ Linear Load							
Output	Voltage	200/208/220/230/240Vac (208/120Vac Optional)					220/230/240Vac		
	Capacity	4050W	5400W	7200W	9000W	9000W	13500W	18000W	
	Frequency (Synchronized Range)	±1Hz or ±3Hz (Selectable)							
	Frequency (Battery Mode)	±0.1%							
	Crest Factor	3:1 Acceptable							
	Harmonic Distortion	< 3% (at Full Linear Load)							
	Output Waveform	Pure Sine Wave							
	Transfer Time (AC to DC)	0ms							
	Efficiency	Up to 91%			Up to 92%			Up to 93%	
	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	Breaker/Fuse/Electronic Circuit							
	EPO	Output Shutdown Immediately							
	Over Temperature	Bypass or Shutdown Immediately							
Physical	Dimensions (WxHxD, mm/inch)	440x88x680 / 17.3x3.5x26.8 440x132x550 / 17.3x5.2x21.6 (ODIN)	440x176x680 / 17.3x6.9x26.8	440x132x680 / 17.3x5.2x26.8		440x264x680 / 17.3x10.3x26.8	440x220x720 / 17.3x8.6x28.3		
	Net Weight (kgs/lbs)	24 / 52.9 17.5 / 38.5(ODIN)	52 / 114.6	45 / 99.2 (8K/10KRT) 50 / 110.2 (8K/10KPRT)		86 / 189.5	36 / 79.3		
Environment	Operating Temperature	0 to 40°C / 32 to 104 °F							
	Noise Level	<50dBA					<60dBA		
	Altitude	1000m/3300ft without De-Rating							
	Humidity	0 to 90% (Without Condensation)							
Interface	Interface Type	Standard RS-232 & EPO							
	Communication Slot	Option: 2nd RS232, USB, RS485, Dry Contact Relay, SNMP/WEB Card							
	Compatible Platforms	Microsoft Windows series, Linux, Mac, etc.							
Standards and Certifications ****	Safety Standard	EN62040-1, UL1778							
	EMC Standard	EN62040-2, EN61000-3-2, EN61000-3-3, FCC Class A							
	Markings	CE, UL, cUL, FCC							

* Specifications subject to change without notice.

** Based on load percentage ***Backup time at 77% load.

**** Depending on the model and voltage, more information please contact with AblereX

