

# Mars III Series

## High Performance Redundancy On-Line UPS

MSIII Tower (MSII PLUS) 4500VA~10000VA  
 MSIII RT (MSII PLUS RT) 4500VA~10000VA



- Rack/Tower Convertible Design
- Power Factor 1.0
- Patent Backup Runtime Estimation
- Flexible Battery Configuration
- Easy Parallel Installation
- Frequency Converter Operation Mode
- Smart ECO Mode
- Generator Compatible Mode
- Full-time Digital Signal Processor (DSP) Control
- LCD Mimic Panel
- Power Range and Runtime Scalability
- Optional Galvanic Isolation Transformer Module / MTBS Box



■ MSIII10000RT



■ MSIII6000RT 4U



■ MSIII 4.5/6KVA (with TR)



■ MSIII 8/10KVA (with TR)

## Specifications

MODEL	MSIII 4.5K / MSIII-RT 4.5K	MSIII 6K / MSIII-RT 6K	MSIII 8K / MSIII-RT 8K	MSIII 10K / MSIII-RT 10K
<b>Input</b>	Phase 1Φ, Line + Neutral + Ground			
	Voltage Range** 110-300VAC			
	Frequency Range Output 50Hz 40~60Hz		Output 60Hz 50~70Hz	
	Input Current Distortion ≤ 5%			
	Input Power Factor Up to 0.99 @ Linear Load			
	Capacity 4500VA/4500W	6000VA/6000W	8000VA/8000W	10000VA/10000W
	Voltage without Transformer 200/208/220/230/240Vac, settable			
	with Transformer 120/208 or 110/220 or 115/230 or 120/240			
<b>Output</b>	Output Power Factor*** 1			
	Output Voltage Distortion ≤ 1% @ 100% Linear load			
	≤ 1% @ 100% non-linear load ; ≤ 4% @ 100% non-linear load(PF=0.9)			
	Output Voltage Regulation without Transformer ±1%		with Transformer ±3%	
	Frequency Range (Synchronized Range) ±1Hz or ±3Hz (Selectable)			
	Crest Factor 3:1			
	Output Waveform Pure Sine Wave			
<b>Efficiency</b>	Line Mode without Transformer 93.5%		with Transformer 90%	
	High Efficiency Mode without Transformer 94%		with Transformer 95%	
<b>Battery</b>	Number of Battery 12/14/16/18/20		16/18/20	
	Battery Type VRLA, Sealed Maintenance Free Lead Acid			
	Recharge Time (to 90%) 4hours			
	Charger 12/14/16 Model 16/18/20 Model	2-step(CC-CV), 1.9A(max.)	2-step(CC-CV), 1.7A(max.)	
	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, Backup time estimation			
<b>Alarm Protection</b>	Self-Diagnostics Upon Power-on, Manual control by panel & communication, self routine check			
	Audible or Visual Line Failure / Battery Low / Transfer to Bypass / System Fault			
<b>Function</b>	Full Protection Overload, Over temperature, Short circuit, ABDM, overcharge			
	Multi-Mode Normal/ ECO/ CVCF			
	DC start Yes			
	Parallel capacity up to 4 units			
	Parallel redundancy 3+1			
<b>Physical</b>	Tower Model (with Batt)	Dimensions (WxHxD, mm/inch) 240x509x700 / 9.5x27.6x20	Net Weight (kgs/lbs) 76/167	
	Tower Model (with Transformer & Batt)	Dimensions (WxHxD, mm/inch) 240x657x700 / 9.5x25.9x20	Net Weight (kgs/lbs) 119 / 262.3	
	RT Model	Dimensions (WxHxD, mm/inch) 440x88x685 / 17.3x3.5x26.0	Net Weight (kgs/lbs) 18.5 / 40.8	
	RT Model (with Battery)	Dimensions (WxHxD, mm/inch) 440x176x685 / 17.3x6.9x26.0	Net Weight (kgs/lbs) 60/132.3 (5Ahx20)	
	RT Transformer Module	Dimensions (WxHxD, mm/inch) 440x88x660 / 17.3x3.5x26.0	Net Weight (kgs/lbs) 42 / 92.6	
<b>Environmental</b>	Operation Temperature 0~40°C/ 32~104°F		Operation Humidity 0%~95%RH (Without condensing)	
	Altitude 1000m/3280ft without Derating			
	Noise Level	≤ 55dBA @ 1 Meter	≤ 60dBA @ 1 Meter	
<b>Interface</b>	Standard USB, EPO/ROO			
	Option 2nd RS232, USB, RS485, Dry Contact Relay, SNMP/WEB Card			
	Compatible Platforms microsoft Windows series, Linux, Mac, etc.			
<b>Standards and Certifications****</b>	Safety EN62040-1, UL1778			
	EMC EN62040-2, FCC part 15 Class A, EN61000-2-2, EN61000-3-2/3, CE/TUV, cULus			

## Battery Bank Specifications

UPS model	Code	Max Battery number / String	Max Battery Quantities	Dimensions(HxWxD,mm)
MSIII 4.5K~10K Tower	BT602403	20	60	700x288x657 / 27.6x11.3x25.9
MSIII 4.5K~6K RT	BC202406	20	20	88x440x483.5 / 3.5x11.3x26.9
MSIII 8K~10K RT	BC202403	20	20	132x440x685 / 5.2x11.3x27

\* Specifications subject to change without notice, and the final explanation rights are reserved by Ablerex.

\*\* Depending on load percentage : 110-300 VAC at 50% load rating; 176-300 VAC at full load.

\*\*\* Max. depending on number of battery. PF:1.0-10K(20S),6K(20S/18S/16S) ; PF:0.9/0.8-10K(18S),6K(14S) ; PF:0.7-10K(16S),6K(12S)

\*\*\*\* Depending on the model and voltage, more information please contact with Ablerex.

