

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
Input	Phase 1Φ, Line + Neutral + Ground			
	Voltage Range** 110-280VAC			
	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			
Output	Output Power Factor*** 1			
	Output Voltage Distortion ≤ 2% @ 100% Linear load			
	≤ 3% @ 100% non-linear load (PF=0.9) ≤ 7% @ 100% non-linear load (PF=0.7)			
	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			
Efficiency	Line Mode without Transformer 93%			
	with Transformer 90%			
	High Efficiency Mode without Transformer 98%			
	with Transformer 95%			
Battery	Number of Battery 12/14/16/18/20			
	Battery Type VRLA, Sealed Maintenance Free Lead Acid			
	Recharge Time (to 90%) 4hours			
	Charger 12/14/16 Model	2-step(CC-CV), 1.9A(max.)		N/A
	16/18/20 Model	2-step(CC-CV), 1.7A(max.)		
Display	Status On LED + LCD			
	Readings On LCD Line Mode, Backup Mode, ECO Mode, Bypass Supply, Battery Low, Battery Bad/Disconnect, Overload, and Transferring with interruption & UPS Fault			
	Self-Diagnostics Input Voltage, Input Frequency, Output Voltage, Output Current, Output Frequency, Load Percentage, Battery Voltage, Inner Temperature, Backup time estimation			
	Audible or Visual Upon Power-on, Manual control by panel & communication, self routine check			
Alarm Protection	Line Failure / Battery Low / Transfer to Bypass / System Fault			
	Full Protection Overload, Over temperature, Short circuit, ABDM, overcharge			
Function	Multi-Mode Normal/ ECO/ CVCF			
	DC start Yes			
	Parallel capacity up to 4 units			
	Parallel redundancy 3+1			
Physical	Tower Model (with Batt)	Dimensions (WxHxD, mm/inch) 240x509x700 / 9.5x27.6x20	288x509x700 / 11.3x20x27.6	
		Net Weight (kgs/lbs) 76/167	91/200	
	Tower Model (with Transformer & Batt)	Dimensions (WxHxD, mm/inch) 240x657x700 / 9.5x25.9x20	288x657x700 / 11.3x25.9x27.6	
		Net Weight (kgs/lbs) 119 / 262.3	133 / 293.2	
	RT Model	Dimensions (WxHxD, mm/inch) 440x88x685 / 17.3x3.5x26.0	440x132x685 / 17.3x5.2x26.0	
		Net Weight (kgs/lbs) 18.5 / 40.8	21.5/47.4	
	RT Model (with Battery)	Dimensions (WxHxD, mm/inch) 440x176x685 / 17.3x6.9x26.0	N/A	
		Net Weight (kgs/lbs) 60/132.3 (5Ahx20)	N/A	
	RT Transformer Module	Dimensions (WxHxD, mm/inch) 440x88x660 / 17.3x3.5x26.0	440x132x660 / 17.3x5.2x26.0	
		Net Weight (kgs/lbs) 42 / 92.6	58 / 127.9	
Environmental	Operation Temperature 0~40°C/ 32~104°F			
	Operation Humidity 20%~95%RH (Without condensing)			
	Altitude 1000m/3280ft without Derating			
	Noise Level	≤ 60dBA @ 1 Meter		≤ 60dBA @ 1 Meter
Interface	Standard USB, EPO/ROO			
	Option 2nd RS232, USB, RS485, Dry Contact Relay, SNMP/WEB Card			
	Compatible Platforms microsoft Windows series, Linux, Mac, etc.			
Standards and Certifications****	Safety EN62040-1, UL1778			
	EMC EN62040-2, FCC part 15 Class A, EN61000-2-2, EN61000-3-2/3,			
	Marks 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	BT602406	20	20	88x440x483.5 / 3.5x11.3x26.9
MSIII 8K~10K RT	BT602403	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 : 176-280 VAC, without derating ; 160-176 VAC, derating to 75% Load ; 110-160 VAC , derating to 50% 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.

