

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
Phase	1Φ, Line + Neutral + Ground			
Voltage Range**	110-280VAC			
Input	Frequency Range	Output 50Hz Output 60Hz	40~60Hz 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 Power Factor***	1			
Output	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 with Transformer	93% 90%	94% 91%
	High Efficiency Mode	without Transformer with Transformer	98% 94%	95%
Battery	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	2-step(CC-CV), 1.9A(max.)		N/A
	16/18/20 Model	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			
Readings On LCD	Input Voltage, Input Frequency, Output Voltage, Output Current, Output Frequency, Load Percentage, Battery Voltage, Inner Temperature, Backup time estimation			
Self-Diagnostics	Upon Power-on, Manual control by panel & communication, self routine check			
Alarm Protection	Audible or Visual	Line Failure / Battery Low / Transfer to Bypass / System Fault		
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			
Physical	Tower Model (with Batt)	Dimensions (WxHxD, mm/inch) Net Weight (kgs/lbs)	240x509x700 / 9.5x27.6x20 76/167	288x509x700 / 11.3x20x27.6 91/200
	Tower Model (with Transformer & Batt)	Dimensions (WxHxD, mm/inch) Net Weight (kgs/lbs)	240x657x700 / 9.5x25.9x20 119 / 262.3	288x657x700 / 11.3x25.9x27.6 133 / 293.2
RT Model	Dimensions (WxHxD, mm/inch) Net Weight (kgs/lbs)	440x88x685 / 17.3x3.5x26.0 18.5 / 40.8	440x132x685 / 17.3x5.2x26.0 21.5/47.4	
	Dimensions (WxHxD, mm/inch) Net Weight (kgs/lbs)	440x176x685 / 17.3x6.9x26.0 60/132.3 (5Ahx20)	N/A N/A	
RT Transformer Module	Dimensions (WxHxD, mm/inch) Net Weight (kgs/lbs)	440x88x660 / 17.3x3.5x26.0 42 / 92.6	440x132x660 / 17.3x5.2x26.0 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
Standard	USB, EPO/ROO			
Option	2nd RS232, USB, RS485, Dry Contact Relay, SNMP/WEB Card			
Compatible Platforms	microsoft Windows series, Linux, Mac, etc.			
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	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 : 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.

