

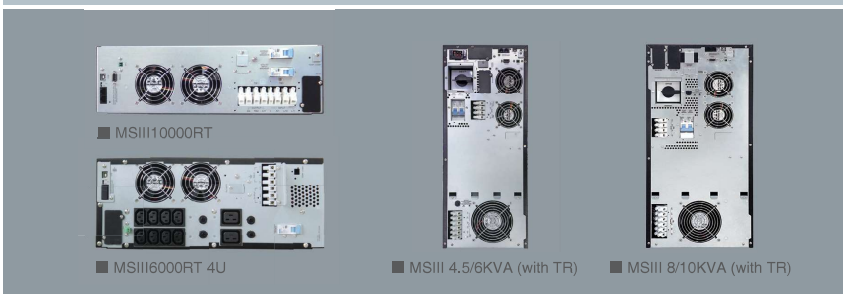
Mars III Series

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



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 1 ϕ , Line + Neutral + Ground				
	Voltage Range** 110-280VAC				
	Frequency Range Output 50Hz 40-60Hz				
	Output 60Hz 50~70Hz				
	Input Current Distortion $\leq 5\%$				
	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 $\leq 2\%$ @ 100% Linear load				
	$\leq 3\%$ @ 100% non-linear load(PF=0.9) $\leq 7\%$ @ 100% non-linear load(PF=0.7)				
	Output Voltage Regulation	without Transformer $\pm 1\%$	with Transformer $\pm 3\%$		
	Frequency Range (Synchronized Range)	$\pm 1\text{Hz}$ or $\pm 3\text{Hz}$ (Selectable)			
	Crest Factor	3:1			
	Output Waveform	Pure Sine Wave			
Efficiency	Line Mode	without Transformer 93%	with Transformer 90%		94%
	High Efficiency Mode	without Transformer 94%	with Transformer 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			N/A
	Charger	12/14/16 Model 2-step(CC-CV), 1.9A(max.)	16/18/20 Model 2-step(CC-CV), 1.7A(max.)		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, Backup time estimation			
	Self-Diagnostics	Upon Power-on, Manual control by panel & communication, self routine check			
Alarm	Audible or Visual	Line Failure / Battery Low / Transfer to Bypass / System Fault			
Protection	Full Protection	Overload, Over temperature, Short circuit, ABDM, overcharge			
	Multi-Mode	Normal/ ECO/ CVCF			
Function	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	$\leq 60\text{dBA}$ @ 1 Meter			$\leq 60\text{dBA}$ @ 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	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.

