

MS III (MSII Plus) Series Redundancy On-Line UPS

The MS III series On-line double conversion UPS with full-time Digital Signal Processor control technology is the perfect solution for mission critical user who demand high reliability, availability and performance from a UPS. Input power factor correction, high efficiency and parallel redundant capability provide a superior level of power quality for sensitive electronic equipment and computer loads.

- Output Power Factor 1
- Rack/Tower Convertible Design
- Patent Backup Runtime Estimation
- Flexible Battery Configuration
- Easy Parallel Installation
- Frequency Converter Operation Mode
- Smart ECO Mode
- Generator Compatible
- Full-time Digital Signal Processor (DSP) Control
- LCD Mimic Panel
- Power Range and Runtime Scalability
- Optional Galvanic Isolation Transformer Module / MTBS Box



MS III (MSII Plus) Series

Convertible Redundancy On-Line UPS

MODEL	MSIII4500		MSIII6000	MSIII8000	MSIII 10000
Input	Phase		Single + G		
	Voltage Range**		110Vac~280Vac		
	Frequency Range		45~70Hz (Auto Sensing)		
	Input Current Distortion		≤3%		
	Input Power Factor		≥0.99 @ Full Load		
Output	Capacity *****		4500VA/4500W	6000VA/6000W	8000VA/8000W 10000VA/10000W
	Voltage		200/208/220/230/240Vac (240/208Vac+120Vac w/output transformer option)		
	Output Power Factor		1		
	Output Voltage Distortion		≤1% @ 100% Linear load ≤3% @ 100% non-linear load with PF=0.9		
	Output Voltage Regulation		±1%		
	Frequency Range (Synchronized Range)		±1Hz or ±3Hz (Selectable)		
	Crest Factor		3:1		
	Output Waveform		Pure Sine Wave		
	Efficiency	Line Mode		93%	
High Efficiency Mode (ECO)		98%			
Battery	Number of Battery		12~20 (16/20 standard)		16~20 (20 standard)
	Battery Type		Sealed Lead Acid Maintenance		
	Recharge Time (to 90%)		4 hours		
	Charger		2-mode operation, 1.86A/2.1A(max.), Temperature compensation(Option)		
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, Charging failure, Battery Disconencted		
Function	Multi-Mode		Normal/ ECO/ CVCF		
	DC start		Yes		
	Parallel capacity		up to 4 units		
	Parallel redundancy		3+1		
Physical	Tower Model	Dimensions (WxHxD, mm/inch)	Without TX: 240x509x663 / 94.5x200.4x261		Without TX: 288x509x663 / 113.4x200.4x261
			With TX: 240x657x663 / 94.5x258.7x261		With TX: 288x657x663/113.4x258.7x261
		Net Weight (kgs/lbs)	With Bat.: 76 / 167.6		With Bat.: 91 / 200.6
			With TX & Bat.: 119 / 262.4		With TX & Bat.: 133 / 293.2
	RT Model	Dimensions (WxHxD, mm/inch)	2U: 440x88x680 / 17.3x3.5x26.8		3U: 440x132x680 / 17.3x5.2x26.8
		Net Weight (kgs/lbs)	24/52.9		45/99.2
	RT Model (w/B)	Dimensions (WxHxD, mm/inch)	4U: 440x176x680 / 17.3x6.9x26.8		6U: 440x264x680 / 17.3x10.4x26.8
		Net Weight (kgs/lbs)	52/115		96/212
Environmental	Operation Temperature		0~40°C/32~104°F		
	Operation Humidity		20%~95%RH (Without condensing)		
	Altitude		1000m/3280ft without Derating		
	Noise Level		≤55dBA @ 1 Meter		≤60dBA @ 1 Meter
Interface	Standard		USB, RS232, EPO, Expansion slot		
	Protocol supported		J-Bus		
	Slot Option		2nd RS232, 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, EN61000-3-2, EN61000-3-3, FCC Class A		
	Performance		EN62040-3		
	Marks		CE, UL, cUL, FCC		

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

** Depending on load percentage.

*** Depending on the model and voltage, please contact Alerex for more information.

**** Depending on the number of battery.

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

