

## 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%		94%	
	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 Disconnected				
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 With TX: 240x657x663 / 94.5x258.7x261	Without TX: 288x509x663 / 113.4x200.4x261 With TX: 288x657x663/113.4x258.7x261		
		Net Weight (kgs/lbs)	With Bat.: 76 / 167.6 With TX & Bat.: 119 / 262.4	With Bat.: 91 / 200.6 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.

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