

# MARS III

## Online Double Conversion UPS

Pure Sinewave Output

Digital Signal Processing

IGBT Transformer less Technology

kW = kVA – More available power

Hot Swappable Batteries

LCD Multi functional Display

Software Control & Monitoring



# MARS III tower

## MORE POWER & EFFICIENCY

**6000VA ~ 10000VA**

MARS III tower features Power Factor 1 on all ratings, delivering 13% more active power than its competitors for the same kVA. And with 4 units in parallel also redundancy is at the highest!



### PERFECT FOR:



Critical IT equipment



Telecom



Healthcare



VOIP



Industry

## FEATURES



- kW = kVA - More available power than any other UPS of the same category
- 4 units parallel, 3+1 redundancy possibility with parallel kit
- Generator compatibility to guarantee efficient functioning
- Dual input
- Flexible battery configuration to best adapt to your needs 16/18/20 batteries
- Precise back-up time estimation
- Multiple operation modes to maximize energy efficiency
- Flash upgradable firmware for updates and customisation
- Hot swap batteries - batteries can be replaced while UPS working
- Remote EPO and On/Off functions
- USB, comm. slot
- Manually activated extra service check

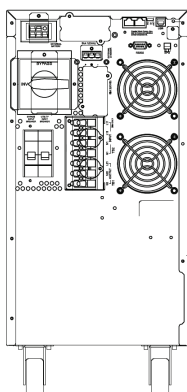
## OPTIONS



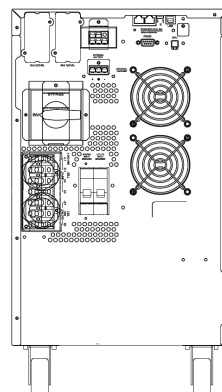
- Versions with transformer in the same footprint
- Extra battery charger
- External battery cabinets with the same aesthetics
- Parallel kit
- 6kVA with 12 or 14 batteries
- Version EN 50171 third-party certified
- RS232, RS485, dry contact relay card, SNMP/web card
- External bypass switch and external socket

## BACK PANEL

MSIII 6000



MSIII 10000



# SPECIFICATIONS

MODEL		MSIII 6000	MSIII 10000	
INPUT	Phase	Single Phase		
	Voltage Range*	110~280Vac		
	Frequency Range	45~70Hz		
	Input Current Distortion	3%		
	Input Power Factor	Up to 0.99 @ Linear load		
OUTPUT	Capacity	6000VA/6000W	10000VA/10000W	
	Voltage	without transformer	200/208/220/230/240 Vac, settable	
		with transformer	120/208 or 110/220 or 115/230 or 120/240 Vac	
	Output Power Factor **	1		
	Output Voltage Distortion	≤2% @ 100% Linear load	≤7% @ 100% Non-Linear load	
	Output Voltage Regulation	without transformer	±1%	
		with transformer	±3%	
	Frequency Range	±1Hz or ±3Hz (selectable)		
	Crest Factor	3:1		
Output Waveform	Pure SineWave			
EFFICIENCY	Online Mode	Up to 94%		
	ECO Mode	98%		
PHYSICAL	with batteries	Dimensions (WxHxD, mm)	240x513x700	288x513x700
		Net Weight (kg)	78	93
	with transformer & batteries	Dimensions (WxHxD, mm)	240x661x700	288x661x700
		Net Weight (kg)	121	135
BATTERY	Number	16/18/20 (12/14 optional)	16/18/20	
	Type	VRLA, Sealed maintenance free lead acid		
	Recharge Time (to 90%)	4hours		
	Charger	2-step (CC-CV), 1.7A (max.)		
	Battery Cabinet	Code	BT6024037	
		Max battery n°/string	20	
Max battery quantities		60		
Dimensions (WxHxD, mm)		288x661x663		
DISPLAY	Status on LED + LCD	Line mode, backup mode, ECO mode, bypass supply, battery low, battery bad/disconnect, overload, 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, overcharge		
FUNCTION	Multi-mode	Normal/ ECO/ Frequency converter		
	DC start	Yes		
	Parallel capacity	Up to 4 units (optional)		
	Parallel redundancy	3+1 (optional)		
ENVIRONMENT	Operation Temperature	0~40°C		
	Operation Humidity	0%~90% (without condensing)		
	Altitude	1000m without derating		
	Noise Level	≤60dBA @ 1 meter		
INTERFACE	Standard	USB, EPO/ROO, Comm. Slot		
	Option	RS232, RS485, Dry contact card, SNMP/Web card, RS232 card		
	Compatible platforms	Microsoft Windows series, Linux, Mac		
STANDARDS & CERTIFICATIONS	Safety & EMC	IEC EN 62040-1, IEC EN 62040-2		
	Performance	IEC EN 62040-3		
	Marks	CE/TUV		

Specifications subject to change without notice

\* Depending on load percentage: 176-280VAC, without derating; 160-176VAC, derating to 75% load, 110-160VAC, derating to 50% load

\*\* Depending on battery number