EDGE Energy Systems

MARS III Tower

More power, efficiency and redundancy

6000VA ~ 10,000VA

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!

- Critical IT equipment
- Telecom
- Healthcare
- VOIP
- Industry

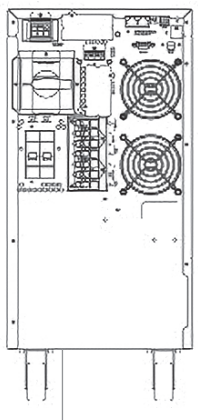
Features

- 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
- 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

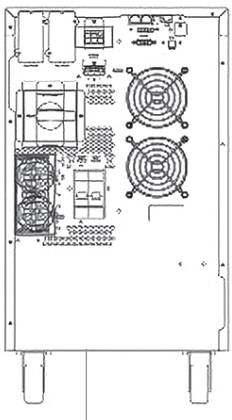
Options

- 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 Panels



MSIII 6000



MSIII 10000

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Technical 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	220/208/220/230/240 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%)		4 hours	
	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 metre	
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*

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