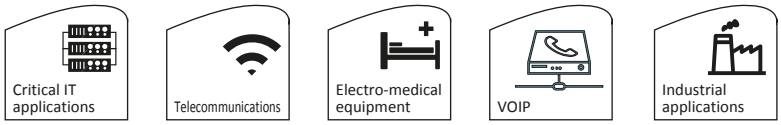
SINGLE-PHASE ONLINE UPS



Features

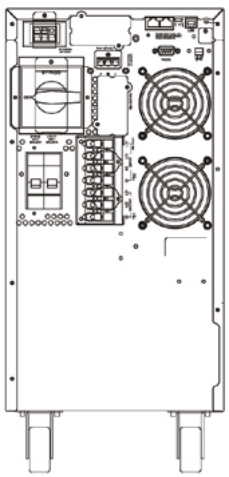
- Maximum power availability: kVA=kW.
- Up to 4 units in parallel, 3 + 1 redundancy possible with parallel kit.
- Low running costs: the high efficiency VFI and ECO features minimise energy consumption.
- User-friendly monitoring software can be downloaded free and is compatible with the main operating systems, for: monitoring functions, diagnostics, controlled shutdown of loads in the event of faults.
- Cold start.
- Wide input voltage and frequency ranges reduce battery switching, thereby increasing battery life and efficiency.
- Flexible battery configuration to suit your uptime requirements.
- Accurate calculated remaining uptime is shown on the display.
- Hot-swappable batteries: the batteries can be replaced while the UPS is running.
- Firmware can be upgraded easily to implement new features.
- EPO or On/Off, with remote option.
- 6-step operation test that can be activated manually.
- RS232 and USB ports, slots for optional communication cards.

Key options

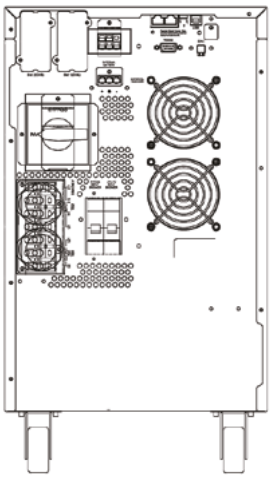
- Cards: RS485, SNMP/web and relay card with dry contacts to send the UPS status to various systems, such as BMS, PLC, SCADA and AS400.
- Parallel kit.
- External battery cabinets.
- External manual bypass with additional sockets.

BACK PANEL

MSIII 6000



MSIII 10000



MSIII tower 6000VA - 10000VA

MAXIMUM POWER, EFFICIENCY AND REDUNDANCY

The ability to install up to four units in parallel means that the maximum redundancy level is always guaranteed.

MODEL			MSIII 6000	MSIII 10000
POWER	VA		6000	10000
	W		6000	10000
INPUT	Rated voltage*		110–280 Vac	
	Frequency		45–70 Hz	
	Power factor		>0.99	
OUTPUT	Rated voltage		200/208/220/230/240 Vac selectable	
	Voltage distortion		<2% with linear load, <7% with distorting load	
	Voltage stability		±1%	
	Frequency		50/60 Hz (selectable)	
	Frequency stability		≤ 0.2% (free running)	
	Power factor		1	
	Crest factor		3:1	
	Waveform		Pure sine wave	
	Output connection		Terminal blocks	
EFFICIENCY	VFI mode		Up to 94%	
	ECO mode		Up to 98%	
GENERAL	Dimensions (WxDxH) mm		240x700x513	288x700x513
	Weight (kg)		53	78
	Alarms		Audible and visual alarm alerts for: power failure, low battery, bypass transfer, and UPS fault.	
	Protection		Overload, overheating, short circuit, deep discharge, battery overcharging.	
	Operating mode		Multi-mode: VFI, ECO, frequency converter (CVCF)	
	Cold start from the battery without mains power		Included	
	Parallel connection		Up to 4 units for 3+1 redundancy	
BATTERY	Battery type		12V VRLA, AGM (maintenance-free lead)	
	Number per string		16	20
	Uptime with internal battery (in minutes).	50% load	12	11
		100% load	4	4
	Charging time (90%)		4–6 hours	
	Battery expansion module dimensions (WxDxH) **		288x663x661	
ENVIRONMENTAL PARAMETERS	Operating temperature***		0–40°C	
	Relative humidity		0%–90% (non-condensing)	
	Altitude (a.s.l.)		<1000 m with no power derating, >1000 m with 1% derating for every 100 m.	
	Audible noise at 1 m.		≤60 dBA	
CONNECTIVITY	Built-in communication ports		USB, RS232, EPO On/Off contact, and additional slots for optional cards	
	User interface		LCD and function keys (parameters: voltage, frequency, load percentage, battery voltage, output voltage, estimated uptime, UPS temperature).	
	Optional accessories		Cards: SNMP, RS485 ModBus, dry contact relays	
	Compatible software platforms		Microsoft Windows, Linux, Mac OS, VMware	
REGULATIONS	Standards		IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3	
	Marking		CE, UKCA	

* Depending on the load ** Battery weight and configuration depends on the required uptime *** To be verified according to the battery parameters