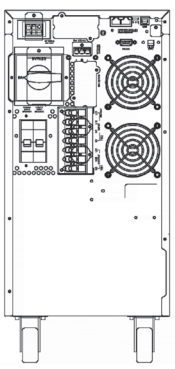
MARS - MARS RT

MARS TECHNICAL DATA SHEET

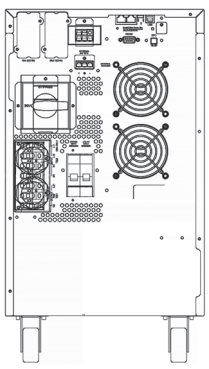
MODEL			MARS 6000	MARS 10000
POWER	VA		6000	10000
	W		6000	10000
INPUT	Rated voltage*		110 – 280 Vac	
	Frequency		45 – 70 Hz	
	Power factor		>0.99	
OUTPUT	Rated voltage		200/208/220/230/240 Vac selectable	
	Voltage distortion		≤2% with linear load, ≤7% with distorting load	
	Voltage stability		±1%	
	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)		59	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)	
	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) mm **		288x663x661	
ENVIRONMENTAL PARAMETERS	Operating temperature***		0 – 40°C	
	Relative humidity		0% – 90% (without 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, remote On/Off contact, and additional slots for optional cards	
	User interface		LCD and function keys (parameters: voltage, frequency, percentage load, battery voltage, output voltage, estimated uptime, UPS temperature).	
	Optional accessories		Cards: SNMP, RS485 ModBus, dry relay contacts	
	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

MARS 6000



MARS 10000



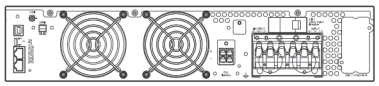
MARS - MARS RT

MARS RT TECHNICAL DATA SHEET

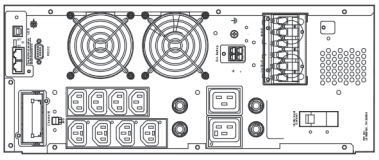
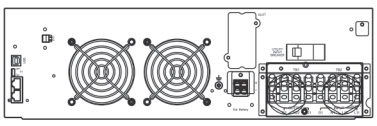
MODEL			MARS 6000RT	MARS 6000RTC	MARS 10000RT
POWER	VA		6000	6000	10000
	W		6000	6000	10000
INPUT	Rated voltage*		110 – 280 Vac		
	Rated frequency		45 – 70 Hz		
	Power factor		>0.99		
OUTPUT	Rated voltage		200/208/220/230/240 Vac selectable		
	Voltage distortion		≤2% with linear load, ≤7% with distorting 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		440x680x88	440x680x176	440x680x132
	Weight (kg)		18.5	60	21.5
	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)		
	Uptime with battery in minutes	50% load	Depends on the external battery cabinets	7	Depends on the external battery cabinets
		100% load	Depends on the external battery cabinets	3	Depends on the external battery cabinets
	Charging time (90%)		4 hours		
	Battery expansion module dimensions (WxDxH) mm**		440x685x132 (3U)	440x685x88 (2U)	440x685x132 (3U)
ENVIRONMENTAL PARAMETERS	Operating temperature***		0 – 40°C		
	Relative humidity		0% – 90% (without 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, EPO, remote On/Off contact, and additional slots for optional cards		
	User interface		LCD and function keys (parameters: voltage, frequency, percentage load, battery voltage, output voltage, estimated uptime, UPS temperature)		
	Optional accessories		Cards: SNMP, RS232, RS485 ModBus, dry relay contacts		
	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

MARS 6000RT



MARS 6000RTC



MARS 10000RT