Ablerex

every moment counts

Mars
6000-10000 VA

Mars RT
6000-10000 VA

MARS - MARS RT

Ablerex

The MARS 6000–10000 VA UPS offers the maximum available power (kVA=kW), and can be connected in parallel for power or redundancy and are suitable for applications that require greater uptime.

MARS
6000-10000 VA
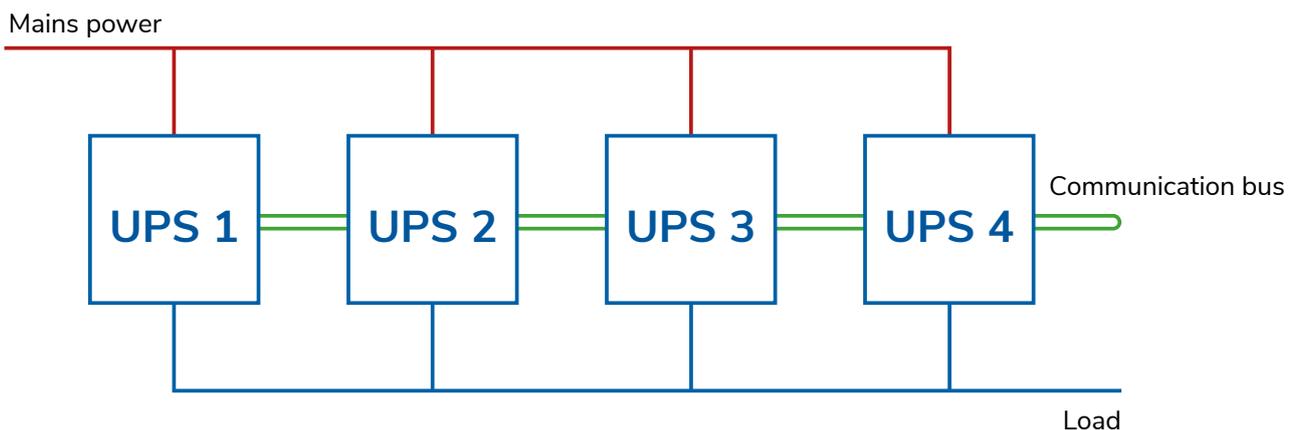
MARS RT
6000-10000 VA

Applications

- Critical IT applications
- Server rooms and micro data centres
- Network, VOIP and telecommunications equipment

- Video surveillance, security and IoT devices
- Electromedical equipment
- Industrial applications

Parallel operation

Purchasing the parallel kit enables this feature, allowing the load to be shared by more than one UPS.

- Up to 4 units can be connected in parallel for a total power of 40 kVA.
- Load always protected thanks to the option of 3+1 redundancy (up to 30 kVA); in the event of a faulty UPS, it is replaced by the fourth module.
- No single point of failure thanks to the communication bus loop connection.

Mains power

UPS 1   UPS 2   UPS 3   UPS 4

Communication bus

Load

- 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 principle operating systems, for: monitoring functions, diagnostics, controlled shutdown of loads in the event of faults.

- Cold start option without mains power.

- 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.
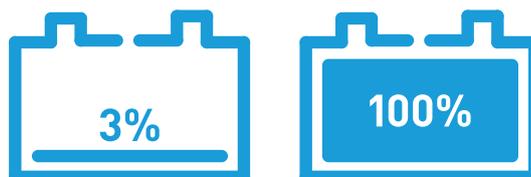
Key options

- Cards: RS485, RS232, 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.

- Rack mounting rail kit for RT models.

Longer battery life

- Set the battery discharge level (3-100%) with the free software.

Battery reserve management

- The UPS turns off when it reaches the set residual battery charge level.

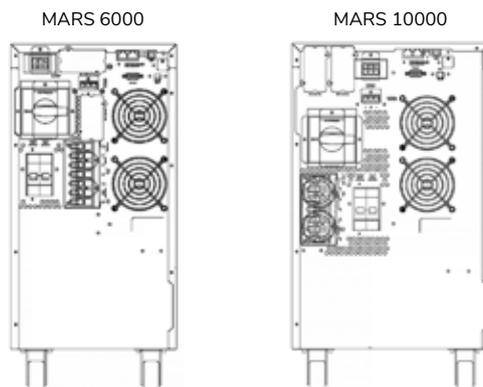- The UPS can be switched on again manually even without mains power.

3%   100%

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
	Uptime with internal battery in minutes — 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
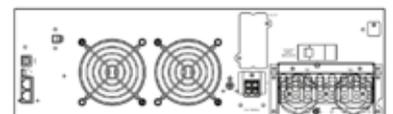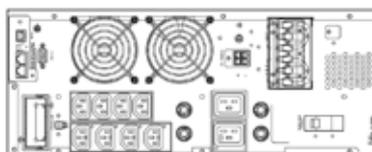
MARS 6000   MARS 10000

MARS - MARS RT

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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
	Uptime with battery in minutes — 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 6000RTC

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Online UPS for maximum protection and longer uptime of critical devices for small, medium and large businesses

Ares Pro
1000-3000 VA

Mars
6000-10000 VA

Ares Pro RT
1000-3000 VA

Mars RT
6000-10000 VA

Odin
Odin Harsh
1000-3000 VA

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