Ablerex

Experts in Power Conversion

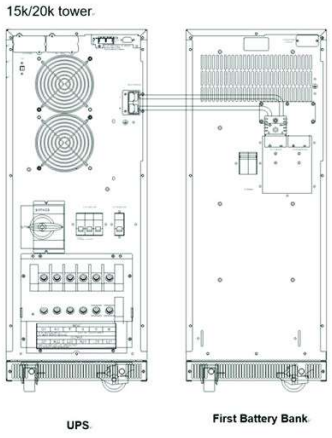
Mars II Tower

True On-Line, double-conversion, Monolithic, High Performance UPS System

The Mars II Tower UPS System has a power factor of 0.9, providing more active power for the same kVA than its competitors. With a capacity to place four units in parallel, its scalability and redundant capacity is ideal.

CRITICAL LOADS | EDUCATION | HEALTH CARE | GOVERNMENT | EDUCATION

Rear View



Front View

Main Features:

- 0.9 Power Factor
- Up to 4 units in parallel for 3 + 1 redundancy, using parallel communication cables.
- On-Line, Double-Conversion topology.
- Electronic bypass, and manual maintenance bypass.
- LCD screen, LED panel, 6 configuration controls.
- Configurable battery jar number for improved flexibility and adaptability.
- Precise runtime estimation.
- Multiple operation modes to improve efficiency.
- Hot-Swappable batteries while unit is on.
- Internal isolation transformer.
- IGBT-based rectifier and inverter.
- Valve regulated lead-acid batteries, free of maintenance.

MARS II Specifications

MODEL		AB-MSII20002	AB-MSII20000
Input	Voltage Range	160VAC - 260VAC	
	Frequency Range	45Hz - 65 Hz (Auto-Sensing)	
	Electrical Configuration	Single-Phase: PH + N + G; Two-Phase: PH + PH + G	
	THDi	≤ 3%	
	Power Factor	≥ 0.99 @ Full Load	
	Connection Type	Direct cabling with terminals	
Output	Capacity	20,000VA / 18,000W	
	Nominal Voltage	200 - 240VAC (Selectable)	100 - 127VAC / 200 - 240VAC (Selectable)
	Electrical Configuration	PH + N + G	PH + N + G, or PH + PH + N + G
	Power Factor	0.9	
	THDv	≤ 2% with linear loads, ≤ 4% with non-linear loads	
	Voltage Regulation	± 1%	
	Frequency Range	50/60Hz ± 1Hz in battery mode and CVCF mode	
	Crest Factor	3:1	
	Connection Type	Direct cabling with terminals; optional PDU	
	Waveform	Pure sinewave	
Efficiency	On-Line Mode	91%	
	ECO Mode	98%	
Battery	Type	Valve regulated, lead-acid, absorbent glass mat, maintenance free	
	Quantity & Voltage	60 jars, 12V 7AH or 9AH; 240VDC	External battery pack, 80 12V 9AH jars; 240VDC
	Recharge Time (to 90%)	3 to 4 hours to 90%	
	Charger	Powered by 2-stage AC connection; optional temperature compensation	
Display	LED Panel	Mains and bypass (dual input), parallel mode, failure, and ECO mode	
	LCD Information	Input voltage and frequency, output voltage current and frequency, load percentage, battery voltage, internal temperature, estimated runtime	
	Self Diagnostics	After power up, manual command through control panel and communications, routine verification	
Alarm	Audiovisual	Mains failure, on battery, low battery, bypass, system failure	
Protection	Software	Overload, over temperature, short circuit, load failure, disconnected battery	
	Hardware	Mains and bypass input breakers	
Operating Modes	Multiple Mode	Normal, ECO, Constant voltage constant frequency (CVCF)	
	Cold Start	Yes	
	Capacity & Redundancy	Up to four units in parallel, 3+1	
		Manual and automatic	
Physical	Dimensions (WxDxH, mm / in)	290 x 645 x 748 / 11.42 x 25.39 x 29.45	320 x 670 x 1,018 / 12.60 x 26.38 x 40.08
	Net Weight (kg / lbs)	60 / 132.28	140 / 308.65
Environmental	Audible Noise	≤ 60 dBA @ 1 meter	
	Operating Temperature	0 - 40°C / 32 - 104°F	
	Operating Humidity	0 - 90% (no condensation)	
	Operating Altitude	Up to 3,000 meters above sea level (9,842 feet)	
Communications	Standard	USB, EPO, remote power on/off, RS232, two slots for network cards, RJ45 ports for parallel	
	Additional Protocols	J-Bus, Modbus, SEC, SNMP V3 network card for IPv6 / Web	
	Accessory Options	RS232, RS485, Dry Contacts, SNMP/WEB network cards	
	Compatible Platforms	Microsoft Windows Series, Linux, Mac	
Standards & Certifications	Safety	EN62040-1-1	
	EMC	EN62040-2, EN61000-3-2, EN61000-3-3	
	Marks	CE	

* Specifications are subject to change without prior notification