



# Mars III Tower

## High Performance Monoblock On Line UPS

The MARS III tower UPS features Unity Power Factor in all classifications, providing 13% more active power than its competitors for the same kVA. And with 4 units in parallel the redundancy is also maximum!



CRITICAL  
LOADS



INDUSTRY



MEDICAL



GOVERNMENT



EDUCATION

Rear View



Front view



## Features:

- Power Factor 1 (kVA=kW)
- 4 parallel units, allows redundancy up to 3+1 with paralleling cables.
- Online double conversion technology (0 ms)
- Automatic bypass and manual maintenance bypass
- LCD + LEDs + 6 buttons for configuration.
- Flexible battery configuration to best suit your needs.
- Accurate estimate of backup time.
- Multiple modes of operation to maximize energy efficiency.
- Batteries can be hot-swapped while the UPS is running.
- Internal isolation transformer.
- Rectifier and inverter with IGBT technology.
- EPO and remote on / off functions

# Mars III specifications

| MODEL                      | AB-MSIII6000               |   | AB-MSIII10000                |
|----------------------------|----------------------------|---|------------------------------|
| Input                      | Voltage range              | 110 Vac ~ 300 Vac   |                              |
|                            | Frequency range            | 40~70 Hz (Auto sensing)   |                              |
|                            | Phases                     | 2 Phase + G or 1 Phase + N + G  |                              |
|                            | Harmonic Distortion THDi   | ≤ 3%  |                              |
|                            | Power factor               | ≥ 0.99 @ full load  |                              |
|                            | Electrical connection      | Hardwire with terminal blocks   |                              |
| Output                     | Capacity                   | 6000 VA / 6000 W  | 10000 VA / 10000 W           |
|                            | Output voltage             | 100~127 VAC / 200~240 VAC (user selectable)   |                              |
|                            | Phases                     | 2 Phase + N + G or 1 Phase + N + G  |                              |
|                            | Power Factor               | 1   |                              |
|                            | Harmonic distortion THD    | ≤2% con cargas lineales y ≤ 5 % con cargas no lineales  |                              |
|                            | Voltage regulation         | ±1%   |                              |
|                            | Frequency range            | ± 1Hz or ± 3Hz synchronized (selectable); 50/60 Hz ± 0.1Hz in battery mode and CVCF   |                              |
|                            | Crest factor               | 3:1   |                              |
|                            | Electric connection        | Hardwire with terminal blocks and optional PDU  |                              |
|                            | Wave type                  | Pure sinusoidal   |                              |
| Efficiency                 | Online mode                | Upto 94.5   |                              |
|                            | ECO high efficiency        | 98%   |                              |
| Battery                    | mode Type                  | Sealed, acid and lead VRLA-AGM  |                              |
|                            | Quantity and voltage       | 20 batteries (12 Vdc and up to 9 Ah) and 240 Vdc  |                              |
|                            | Recharge time (to 90%)     | 3 to 4 hours  |                              |
|                            | Charger                    | two-stage AC direct powered, temperature compensation (optional)  |                              |
| Display                    | LED                        | Main input and bypass (dual input), parallel mode, fault and ECO mode.  |                              |
|                            | LCD readings               | Input Voltage, Input Frequency, Output Voltage, Output Current, Output Frequency, Charge Percentage, Battery Voltage, Internal Temperature, Estimated Backup Time |                              |
|                            | Auto diagnosis             | After power-up, manual control by panel and communication, routine check  |                              |
| Alarms                     | Audiovisual                | Line Failure / Low Battery / Bypass Transfer / System Failure   |                              |
| Protection                 | Software                   | Overload, over-temperature, short circuit, charge failure, battery disconnected   |                              |
|                            | Hardware                   | Power input switch and bypass input switch  |                              |
| Functions                  | Multiple mode              | Normal / ECO / CVCF (Constant Voltage / Constant Frequency)   |                              |
|                            | Cold start                 | Yes   |                              |
|                            | Parallel capacity          | Up to 4 units   |                              |
|                            | Parallel redundancy        | Up to 3 +1  |                              |
| Phisical                   | Dimensions (WxHxD,mm/inch) | 240x657x700 / 9.5x25.9x20   | 288x657x700 / 11.3x25.9x27.6 |
|                            | Net weight (kg/lbs)        | 119 / 262.3   | 133 / 293.2/212              |
| Environmental              | Noise level                | ≤ 45dBA @ 1 meter   | ≤ 50 dBA @ 1 meter           |
|                            | Temperature                | 0~40C / 32~104F   |                              |
|                            | Humidity                   | 0%~95%RH (without condensing)   |                              |
|                            | Operating altitude         | 3000 masl   |                              |
| Interface                  | Standard                   | USB, EPO, Remote On / Off, RS232, 2 network card slots, RJ45 ports for parallel.  |                              |
|                            | Additional protocols       | J-Bus, Modbus, SEC, SNMP/WEB  |                              |
|                            | Slot options               | RS232, RS485, Dry Contact, SNMP / WEB cards   |                              |
|                            | Supported platforms        | Microsoft Windows series, Linux, Mac, etc.  |                              |
| Standards y Certifications | Security                   | EN62040-1, UL1778   |                              |
|                            | EMC                        | EN62040-2, EN61000-3-2, EN61000-3-3, FCC Clase A  |                              |
|                            | Marks                      | CE, UL, cUL, FCC  |                              |

\* Specifications are subject to change without notice.

