



# Mars-Eco

## Double Conversion Online UPS

The MARS ECO Tower UPS features Power Factor 1 in all ratings, providing 13% more active power than its competitors for the same kVA. And with 3 units in parallel, redundancy is also maximum!



CARGA CRÍTICA



INDUSTRIA



CUIDAD DE LA SALUD



GOBIERNO



EDUCACION

Vista Posterior



Vista de Frente



## Highlights:

- Double conversion design with the highest adaptability to extreme network conditions
- $FP=1(VA=W)$
- High efficiency results in energy savings by offering an Eco mode of operation.
- Built-in OVCD protection, fan lock and overheat detection
- Overload detection and warning to improve product reliability.
- USB HID allows UPS monitoring without software installation
- Intelligent communication slot allows remote monitoring
- Capacity for growth and redundancy with Parallel card (maximum 3 units)
- Adjustable battery chains 192~240 Vdc
- LCD screen with up to 100 historical events
- UL1778 and CE certifications

# Specifications

MODEL		AB-MS-ECO6000	AB-MS-ECO10000
Input	Voltage Range	176-276V 100% load, 110-176V derated to 50% linear loads	
	Frequency Range	40 Hz~70 Hz ≤60% nominal load; 45 Hz~55 Hz, 54 Hz ~66 Hz >60% nominal load	
	Phases	Una fase 2W+G (L+N+G) o (L+L+G)	
	Harmonic distortion THDi	≤3.5% lineal load and <5% non linear loads	
	Power Factor	≥ 0.99 @ Full Load	
Output	Capacity	6000VA/6000W	10000VA/10000W
	Voltage	120/208/220/230/240 Vca with isolation transformer	
	Power Factor	1	
	Harmonics distortion THD	≤2% with linear loads and ≤ 5 % with non linear loads	
	Voltage Regulation	±2.5%	
	Frequency Range	50/60 Hz	
	Crest Factor	3:1	
	Wave type	Pure sinusoidal Wave	
Efficiency	Online mode	93%	
	High efficiency mode	98%	
Battery	Type	Sealed lead and acid VRLA AGM	
	Number	16 batteries 12V / 7Ah (settable to 20 pcs)	16 batteries 12V / 9Ah (settable to 20 pcs)
	Recharge time	3 hours for 90%	
	Charger	factory default: 1.4A; Range : 0~4A	factory default: 2A; range : 0~4A
Display	LED + LCD	Line Mode, Backup Mode, ECO Mode, Bypass Supply, Low Battery, Defective/disconnected battery, overload and transfer with interruption and UPS failure	
	LCD readings	Input voltage, input frequency, output voltage, output current, output frequency, Charge percentage, battery voltage, internal temperature, estimated backup time, 100 events	
	Auto-Diagnostics	After power on, manual control by panel and communication, routine check	
Alarm	Audiovisuals	Line Failure / Low Battery / Transfer to Bypass / System Failure	
Protection	Totla Protection for	Overload, over temperature, short circuit, charging failure, battery disconnected	
Funtions	Multiple modes	Normal / ECO / CVCF (Constant Voltage / Constant Frequency)	
	Cool start	Yes	
	Parallel capacity	up to 3 units	
	Parallel redundancy	2+1	
Physicals	Tower model	Dimensions (WxHxD,mm/inch)	300x633.2x805.5 / 11.8x24.9x31.7
		Net weight(kg/lbs)	100 / 220
Enviromental	Temperature	0~40C / 32~104F	
	Humidity	0%~95%RH (sin condensar)	
	Altitude	≤1000m, no derate, from 1000~3000m, capacity derates 1% every 100m	
	Noise	55 dBA @ 1 meter	
Interface	Standar	USB, EPO, ROO, SR232, 2 cards slots	
	Aditonal protocolos	J-Bus, Modbus, SEC	
	Slot options	CardsRS232, RS485, Dry contacts , SNMP/WEB	
	Compatible plataforms	Microsoft Windows series, Linux, Mac, etc.	
Standars and Certifications	Safety	cTUVus/UL1778, CE/EN62040	
	EMI	IEC/EN 62040-2: 2006 Category C3	
	EMS	IEC/EN 61000-4-2, & 3 nivel3: IEC/EN 61000-4-4 & 5: 2006 Level 4	
	Marks	CE, UL, cUL, FCC	

\*Specifications are subject to change without notice.

