

DELTRONICS MARS SERIES

1:1 Phase PF 0.9 (PF 0.8/1.0 optional)
POWER RANGE: 1-3 KVA

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DELTRONICS



Deltronics Mars Tower Series 1-3 KVA

The Mars Tower Series provides 1–3 kVA online double-conversion UPS systems designed to deliver stable power to sensitive equipment. Its high power factor, tower installation, and wide input voltage range ensure reliable performance even under power fluctuations.

It features intelligent communication, optional external battery banks, and comprehensive protection to ensure operational continuity in corporate environments.

Features

- High power density
- Online double conversion with full digital control Wide input voltage range: 110~300Vac
- Input power factor 0.99 with PFC
- Selectable output voltage: 208/220/230/240Vac
- Smart charger design for optimized battery performance
- Maximum charging current can be expanded to 12A (Long run unit)
- Emergency power off function (EPO) ECO mode operation for energy saving Generator compatible
- Cold start
- Intelligent fan speed regulation Load segment settable (Optional)
- Versatile LCD human-computer interface
- Multiple communication interface: RS232 (USB/EPO/ Dry contact card/SNMP card optional)
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm

Blue LCD



Socket



Rear panel



SNMP card



Dry contact card

Technical Specifications

MODEL	MR-1KTW-S2	MR-2KTW-S6	MR-3KTW-S6
Capacity (VA/W)	1000/900	2000/1800	3000/2700
INPUT			
Nominal Voltage (Vac)	208/220/230/240		
Operating Voltage Range (Vac)	110~300 (176~264 @ 100% load)		
Power Factor	≥0.99		
Bypass Frequency Range (Hz)	40~70 (50/60 Auto-Sensing)		
OUTPUT			
Nominal Voltage (Vac)	208/220/230/240		
Voltage Regulation	±1%		
Power Factor	0.9		
Output Frequency (Hz)	Line mode: 46~54 or 56~64; Bat. mode: (50/60±0.1%)		
Crest Factor	3:1		
Harmonic Distortion (THDv)	≤3% Linear load; ≤5% Non linear load		
Transfer Time (ms)	AC mode to Bat.mode: 0; Inverter to Bypass: 4 (Typical)		
Waveform	Pure Sinewave		
EFFICIENCY			
AC Mode	Up to 90%	Up to 91%	Up to 92%
ECO Mode	Up to 95%	Up to 96%	Up to 97%
BATTERY			
Battery Type	VRLA (Lead acid maintenance free battery)		
Battery Voltage (Vdc)	24	72	72
Battery Capacity (Ah)	S: 7/9; H: Depends on the capacity of external batteries		
Battery Quantity (pcs)	2	6	6
Typical Recharge Time (hours)	S: 4 (To 90% of full capacity)		
Charging Current (Max.)(A)	1.4	1.4	1.4
MANAGEMENT			
LED Display	Line mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault		
LCD Display	Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature& Remaining battery backup time		
ENVIRONMENTAL			
Operating Temperature (°C)	0~40		
Storage Temperature (°C)	-25~55		
Humidity Range	20~95%RH @ 0~40°C (Non condensing)		
Altitude (m)	<1000, derating required between 1000 to 3000		
Noise Level (dB)	<50		
PHYSICAL			
Dimension WxDxH (mm)	144×293×209	191×460×337	191×460×337
Weight (kg)	9.3	24.5	24.5
STANDARDS			
Safety	EC/EN 62040-1, IEC/EN 62477-1		
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)		

1. When output voltage is 208Vac, need to derate to 80% of the unit capacity.
2. Specifications are subject to change without prior notice.
3. Data above are typical values for reference only, not as a basis for engineering design.

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