

DELTRONICS MARS SERIES

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

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DELTRONICS



Deltronics Mars RT Series 1-3 KVA

The Mars RT Series (1-3 kVA) is an online double-conversion UPS designed for IT systems, servers, and critical equipment. Its high power factor, stable output, and rack/tower convertible design make it adaptable to a wide range of environments.

It provides advanced communication capabilities, compatibility with external battery banks, and comprehensive protection against electrical faults, ensuring uninterrupted operation for sensitive systems.

Features

- Rack/Tower convertible design
- 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
- Hot-Swappable battery design 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
- PDU with maintenance bypass switch (Optional)



Multifunctional Bracket

Socket



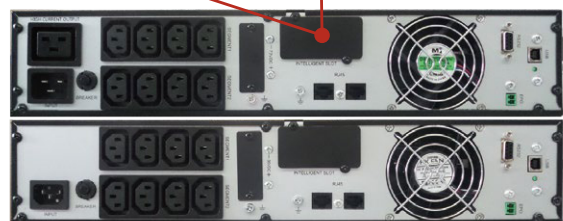
The LCD panel can be rotated



SNMP card



Dry contact card



Technical Specifications

MODEL	MR-1KRT-S2	MR-2KRT-S4	MR-3KRT-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	48	72
Battery Capacity (Ah)	S: 7/9; H: Depends on the capacity of external batteries		
Battery Quantity (pcs)	2	4	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)	440×325×86.5	440×460×86.5	440×600×86.5
Weight (kg)	11.3	19.5	26
STANDARDS			
Safety	IEC/EN 62040-1, IEC/EN 62477-1		
EMC	IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8		

1. When output voltage is 208Vac, it needs 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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