

MT

SINGLE PHASE 1KVA : 3KVA

CEI 0-16 On line

Sine wave – Double conversion

TECHNICAL SPECIFICATION



SPECIFICATIONS

The range of MV Emergency power supplies guarantees complete protection for the power supply of the auxiliary cabins, guaranteeing a power reserve for the resetting of the minimum voltage coil.

Additional battery boxes are available that allow the autonomy to be extended up to 3 hours with nominal load.

Relay cards are optionally available to remotely report the status of the machine, or alternatively an SNMP network card.

The minimum voltage coil and the control circuits of the Medium Voltage circuit breakers must be powered by the same auxiliary voltage coming from the Rescuer (UPS) with an autonomy of 60 minutes.

In the event of a long interruption due to maintenance or breakdown, the Medium Voltage Circuit Breaker must be re-energized by suitably trained personnel.

Before closing the main disconnecter, it is necessary to power the Medium Voltage switch.



1kVA – 2kVA – 3kVA

FEATURES

- On-line double conversion with Digital Signal Processor (DSP) digital control technology.
- High PF at input and output
- Wide range of input tolerance (energy saving)
- Eco Mode (Economic operation mode)
- Energy return protection and dedicated filtering (Surge Protection)
- Monitoring and self-diagnosis at each start-up
- Cold Start
- Exit by-pass
- Possibility of autonomy expansion with additional battery boxes
- USB port
- Even software
- Intelligent SNMP network card slot (optional)



The MT series is produced with an LCD display from which the operating parameters (more than 50 items) can be viewed, and from where it is possible to set the basic configurations.

Dimensions and weights are indicative only and may be changed at any time without prior notice

MODEL			MT01	MT02	MT03
POWER RATING			1000VA / 900W	2000VA / 1800W	3000VA / 2700W
INPUT	Input Type		Single-phase grounded		
	Voltage Range		115±5VAC-295±5VAC		
	Frequency Range		45Hz-55Hz@50Hz / 55Hz-65Hz@60Hz autosensing		
	Power factor		≥0.99		
	Technology		ON LINE DOUBLE CONVERSION VFI-SS-111		
	Intervallo bypass		186VAC-252VAC		
	THDi		≤3% (100% nonlinear load)		
	Connections		1x IEC	1x L/W + T terminal block	
OUTPUT	Output Type		Single-phase grounded		
	Rated voltage		208/220/230/240VAC		
	Power factor		0.9		
	Voltage accuracy		±2%		
	Frequency	Normal Mode	1. When the input frequency is in range, the output frequency is the same as the input frequency. When the frequency is out of range, the output frequency is (50/60±0.2) Hz as when switching to battery mode		
		Battery Mode	(50/60±0.2) Hz		
	Crest factor		3:1		
	Switching time		Network ↔ battery = 0ms		
	Overload	Battery Mode	108%±5%<load≤150%±5% >30s shuts off the output and warns, 150%±5%<Load<200%±5% > 300ms interrupts output and warns		
		Normal Mode	108%±5%<load≤150%±5% > 30s switches to bypass and warns 150%±5%<load<200%±5% >300ms switches to bypass and warns		
	Efficiency	Normal Mode	100% load ≥92%		
		Battery Mode	100% load ≥90%		
		ECHO	100% load ≥97%		
	Output voltage distortion		≤3% (100% linear load)		
			≤5% (100% non-linear load)		
	Connections		2x IEC 1x Schuko	6x IEC 1x Schuko 1x L/W + T terminal block	
BATTERY	Input Battery Voltage		24VDC	48VDC	72VDC
	Internal batteries quantity		2	4	6
	Internal battery type		Battery 12V/7-9AH Maintenance-Free Airtight Lead Acid Battery		
	Runtime		60 MIN. 50W	60 MIN. 100W	60 MIN. 150W
	Charging current (A)		1,2		
ENVIRONMENT	Standard		IEC/EN 62040-1 - IEC/EN 62040-2 - IEC/EN 62040-3 - IEC/EN 60950-1 - IEC 0-16		
	Temperature		0°C~40°C (excluding batteries)		
	Relative humidity		0~95% non-condensing		
	Max Working Altitude		<1500m - if >1500m, reduce the rated power for use		
	Storage Temperature		-25°C~55°C (excluding batteries)		
	Noise		< 50dB @ 1mt		
DIMENSIONS (WxDxH) mm			144x400x215	191x470x336	
WEIGHT KG. (gross/net)			10,3/9.3	20.8/18.8	25.8/23.8
Included parts			Instruction manual, software, USB cable		

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