

MISSION UPS

True On-line UPS Double Conversion Single Phase 1kVA-10kVA

MISSION is a compact UPS, and can be used for all kind of applications.

It is a true on-line transformerless UPS, double conversion technology, single phase, from 1 kVA to 10 kVA. It includes a maintenance bypass (6KVA and 10KVA models), and it is possible to increase the back-up time by adding battery packs.

MISSION is the most suitable product for critical loads. It has 0 ms switching time and guarantee a perfect protection for all applications requiring an input voltage without disturbances and no interruptions.

A PF at 0,8 and DSP technology (Digital Signal Processor) it provides high output efficiency for all kind of loads.



Code MISSION 1KVA MISSION 2KVA MISSION 3KVA MISSION 6KVA MISSION 10KVA

Input

Power	1KVA/0,9KW	2KVA/1,8KW	3KVA/2,7KW	6KVA/5,4KW	10KVA/9KW
Input line	Single phase + N				
Input voltage	115±5VAC-295±5VAC			220VAC/230VAC/240VAC	
Input frequency	45-55Hz @ 50/55HZ		65Hz @ 60HZ	50/60 Hz auto sensing	
Power factor	≥ 0.98			≥ 0.80 (input THDV ≤1%)	

Output

Output line	Single phase + N				
Output voltage	220/230/240VAC selectable				
Output frequency	50/60 Hz				
Power factor	0.9				
Voltage tolerance	±2%				±1%
Switching time	Main -- Battery = 0ms				
Output THD	≤ 3% (100% linear load)			≤ 2% (100% linear load)	

Batteries

Output THD	2	1	4	6	16/18/20 monoblocchi configurabili
Kind of batteries	Maintenance-free, Sealed lead acid				
Back up time	10'				

Dimensions and Weight

Dimensions (WxHxD)	mm	144x215x368	191x339x469	191x339x469	250x616x502	250x616x502
Weight kg	kg	10,5	21,6	26,2	62	64
Display	LCD+LED					
Colour	black					

Total power protection
 Ultra-wide input voltage range operation for avoiding battery discharge
 Monitoring of the UPS operations
 Cold start capability
 Low battery/exhausted battery controls
 Capability to set different levels of alarms
 USB interface for control and data acquisition via PC
 Remote communication and control capability through the web



MISSION MT - CEI 0-16 / CEI 0-21

Single-phase CPSS compliant with CEI 0-16 - CEI 0-21

MISSION MT series is an equipment specifically designed to provide power to all ancillary circuits in a Medium Voltage substation for at least 60 minutes. It also keep an energy storage in case of long black-out due to maintenance or severe failures on the mains.



Code	MISSION MT 1KVA	MISSION MT 2KVA	MISSION MT 3KVA	MISSION MT 6KVA	MISSION MT 10KVA
Input					
Power	1KVA/0,9KW	2KVA/1,8KW	3KVA/2,7KW	6KVA/5,4KW	10KVA/8KW
Input	Single-phase + gnd				
Input Voltage	115±5VAC-295±5VAC			220VAC/230VAC/240VAC	
Input Frequency	45-55Hz @ 50/55HZ		65Hz @ 60HZ	50/60 Hz auto select	
Power Factor	≥ 0,98			≥ 0.80 (input THDV ≤1%)	
Output					
Output	Single-phase + gnd				
Output Voltage	220/230/240VAC selectable				
Output Frequency	50/60 Hz				
Power Factor	0.9				
Output voltage	±2%			±1%	
Switching time	Mains -- Battery = 0ms				
Output voltage distortion	≤ 3% (100% linear load)			≤ 2% (100% linear load)	
Batteries					
Battery type	maintenance-free, sealed lead-acid				
Autonomy time	maintenance-free, sealed lead-acid				
Dimensions and Weight					
Dimensions (WxHxD)	mm 144x215x368	191x339x469	191x339x469	250x616x502	250x616x502
Weight UPS standard with batt.	kg 10,5	21,6	26,2	62	64
Display	LCD+LED				
Color	black				
Standards	EN/IEC 60950-1	EN/IEC 62040-1	EN/IEC 62040-2	EN/IEC 62040-3	CEI 0-16 CEI 0-21

APPLICATIONS:

- MV substations
- Substations
- LV and MV switchboards
- Automation

TECHNICAL CHARACTERISTICS:

- On-Line double conversion technology
- Sinusoidal waveform
- UPS on battery signal
- Energy storage



MISSION MSS - EN50171

Single-phase CPSS for energizing safety equipment in compliance with EN50171

Mission MSS series is designed to be compliant with EN50171 standard.

Main applications are:

- Centralized emergency lighting systems
- Automatic fire extinguishing installations
- Paging systems and signalling safety installations
- Smoke extraction equipment
- Carbon monoxide warning systems
- Specific safety installations related to specific buildings, e.g. high-risk areas.

Our "Elsist Battery Control" system allows the right operation in case of mains outages, checking the conditions of every battery pack. The battery charger is designed to recharge the batteries at 80% of total capacity in less than 8 hours.

Autonomy times may be 1, 2 or 3 hours at nominal load, according to the condition specified by EN50171 standard.



Code	MISSION MMS 1KVA	MISSION MMS 2KVA	MISSION MMS 3KVA	MISSION MMS 6KVA	MISSION MMS 10KVA
Input					
Power	1KVA/0,9KW	2KVA/1,8KW	3KVA/2,7KW	6KVA/5,4KW	10KVA/9KW
Power according to EN50171	0,75KW	1,50KW	2,25KW	4,50KW	7,50KW
Input	single-phase + gnd				
Input Voltage	115±5VAC-295±5VAC			220VAC/230VAC/240VAC	
Input Frequency	45-55Hz @ 50/55HZ		65Hz @ 60HZ	50/60 Hz auto select	
Power Factor	≥ 0.98			≥ 0.80 (input THDV ≤1%)	
Output					
Output	single-phase + gnd				
Output Voltage	220/230/240VAC selectable				
Output Frequency	50/60 Hz				
Power Factor	0.9				
Voltage tolerance	±2%			±1%	
Switching time	Mains -- Battery = 0ms				
Output voltage distortion	≤ 3% (100% linear load)			≤ 2% (100% linear load)	
Batteries					
Battery type	maintenance-free, sealed lead-acid				
Autonomy time	60' - 90' - 120'				
Dimensions and Weight					
Dimensions (WxHxD)	mm 144x215x368	191x339x469	191x339x469	250x616x502	250x616x502
Weight UPS standard with batt.	kg 10,5	21,6	26,2	62	64
Display	LCD+LED				
Battery	black				
Standards	EN/IEC 60950-1 EN/IEC 62040-1 EN/IEC 62040-2 EN/IEC 62040-3 EN 50171				

MAIN CHARACTERISTICS

- 1-High overload capability
- 2-Reverse voltage battery protection
- 3-High recharging current
- 4-10 years battery lifetime
- 5-RS232-RS485 interfaces
- 6-Relay card with clean contacts for remote alarms



MISSION CF

Single-phase Frequency converter 6K-10K

SINGLE-PHASE 50/60Hz FREQUENCY CONVERTER - MISSION TOWER SERIES

50/60Hz Frequency converter at 6kVA and 10kVA with VFI sinusoidal waveform (Voltage and Frequency Independent).

Frequency converter supply a linear current and a complete protection to:

- Data Network/PC
- Data center
- Server
- Telecommunication system
- Hospital equipment
- Industrial equipment

The Frequency converter provides an output at 50Hz or 60Hz which is independent from input frequency. The Power Factor correction circuit improves the quality of absorbed input current, thus increasing the efficiency and saving energy

Code	MISSION CF 6KVA	MISSION CF 10KVA
Input		
Power	6KVA/5.4KW	10KVA/9KW
Input	Single-phase + gnd	
Input Voltage	220VAC/230VAC/240VAC	
Input Frequency	50/60 Hz auto select	
Power Factor	≥ 0.80 (input THDV ≤1%)	
Output		
Output	Single-phase + gnd	
Output Voltage	220/230/240VAC selezionabile	
Output Frequency	50/60 Hz	
Power Factor	0.8	
Voltage tolerance	±1%	
Output voltage distortion	≤ 2% (100% linear load)	
Dimensions and Weight		
Dimensions (WxHxD)	mm	250x616x502
Weight UPS standard with batt.	kg	62
Display	LCD+LED	
Color	black	

Main characteristics:

- High PF at input and at output
- Wide input range (energy saving)
- Monitoring and self-test at switch-on
- USB port
- EPO contact
- Software included

MISSION series of Frequency converter is equipped with a LCD display showing all parameters (more than 50 items). Moreover, it is possible to set the base configurations directly on the display

