



The apparatus of this series are outcome of a long experience both in Uninterruptible Power Supply field and in this specific one. The double conversion technology assures a complete protection of the users from main disturbances: for that reason, these apparatus are studied to feed emergency lighting devices and privileged users.

PRINCIPALES OF WORKING

The users can be divided in two typologies:

- 1) Users always feed (**SA**). They are fed in both conditions, with and without the main.
- 2) Users feed only in emergency condition (**SE**). They are fed only in back up condition without the main.

- Working as UPS. With the main present, the SA users are fed by the inverter (stabilized and filtered output voltage), in power failure condition, the inverter feeds both SA and SE users.

- Working as Emergency Supply (eco-mode). To reduce the losses, in alternative to the previous way of working, it is possible the following method: with the main present, the users are fed directly by the main, in power failure condition, the inverter feeds both SA and SE users.

In both way of working it is possible control the feed of SE users with an external contact.

AC VOLTAGE EMERGENCY SUPPLY

TECHNICAL DATA**1. INPUT**

- Nominal voltage: 230V single phase 400V 3Ph+N
- Window input voltage: 184V ÷ 264V; 280V ÷ 450V;
- Frequency: 50Hz ±2%
- Power factor: > 0,95.
- Total Current Harmonic Distortion (THDI): < 10%

2. OUTPUT

- Nominal voltage: 230Vac ±1%; 400Vac ±1%
- Nominal frequency: 50Hz ±1%
- Waveform: sinusoidal
- Voltage Harmonic Distortion (THD): 1.5%
- Overload: 2.5 In for 1 minute.
- Crest factor: 3

3. OTHER FEATURES

- Back up time: 60 minutes
- Battery type: lead sealed without maintenance
- Recharge characteristics: IU (DIN 41773)
- Recharge time: 12 hours
- Inverter efficiency at nominal load: 92%
- Working temperature: 0°C ÷ 40°C
- Humidity at 40°C: 95% without condensing.
- Noise at full load: 50dBA
- Neutral not insulated. (galvanic insulation as option).

4. MEASURES, SIGNALLING

- LCD meters:
 - Input voltage rectifier
 - Input voltage emergency line
 - Output voltage
 - Output frequency
 - Battery voltage
 - Output current
 - % load
 - % battery back up

- LED signalling:
 - Input voltage rectifier
 - Input voltage emergency line
 - Battery
 - Inverter
 - Battery fuses fault
 - Bypass
 - Fault



CONVERTITORI STATICI d'ENERGIA ELETTRICA

CATALOGO PRODOTTI

AC VOLTAGE EMERGENCY SUPPLY

- Power History: Event log
- Interfaces: RS232 and dry contacts (main, users fed by inverter, autonomy, general alarm)
Optional interface: SNMP (Single Network Management Protocol)

Comands:

On-line working (from keyboard)
Energy saving working (from keyboard).
Test battery (from keyboard)
Start/stop push bottom
EPO remote contact (Emergency Power Off).
(The push bottom EPO usually is placed outside the room next the door.)