

CPSS *EM*ergency

from 3 to 200 kVA

a centralised power supply for your emergency systems

Central power supply systems are designed for buildings subject to fire safety regulations

Designed and built in compliance with standard EN 50171.1 CPSS (Central Power Supply Systems), they are used principally to provide emergency lighting in the event of the normal utility power source failing, but can also be used for other emergency systems, such as:

- automatic fire sprinkler systems,
- emergency detection and warning units,
- smoke extraction equipment,
- carbon monoxide detection systems,
- specific systems for safety-sensitive areas.

A central power supply system offers key benefits

- Reduces the cost of your investment.
- Reduces installation costs.
- Reduces operating costs (long term reliability).
- Simplifies mandatory periodic testing procedures.
- Eliminates the drawbacks associated with thermal stress on back-up batteries at high elevations.



Your protection for

- > Tertiary sector
- > Industry
- > Small enterprises
- > Museums, hospitals



Fully compliant product ranges

The CPSS *EM*ergency range has been developed to meet your needs your particular needs, while ensuring compliance with European standards.

• Batteries

- VRLA (Valved Regulated Lead Acid).
- Long life expectancy: 10 years operating at 20 °C.
- Compliant with EN 50272-2.
- Back-up time 30 to 180 minutes.

• Slow-discharge protection

- Inverter shutdown function, designed to prevent deep-discharge battery damage.
- Preventive alarm and manual reset after shutdown.

• Battery charger

- Compliant with EN 50272-2 and EN 60146-1-1
- Recharge to 80% capacity within 12 hours, in conformity with EN 50171.
- Low AC ripple currents for maximum battery life, and in conformity with EN 50171.
- Battery voltage automatically according to temperature.

• Test

- Automatic and manual battery status test.
- Input switch for mandatory periodic verification of battery back-up time.

• Enclosure

- Metal structure responding to EN 60598-1.
- Minimum protection category IP 20.
- Compact dimensions, small footprint.

• Inverter

- Low harmonic distortion (THDU %) on output side.
- Protection against battery polarity inversion, in conformity with EN 50171.

• Transformers

- Double wound with safety earth screen, in conformity with EN 61558-2-6 (option).

• On request

- Galvanic isolation transformer responding to EN 61558-2-6.
- Prewired for isolated neutral (IT).
- Permanent Isolation Controller.

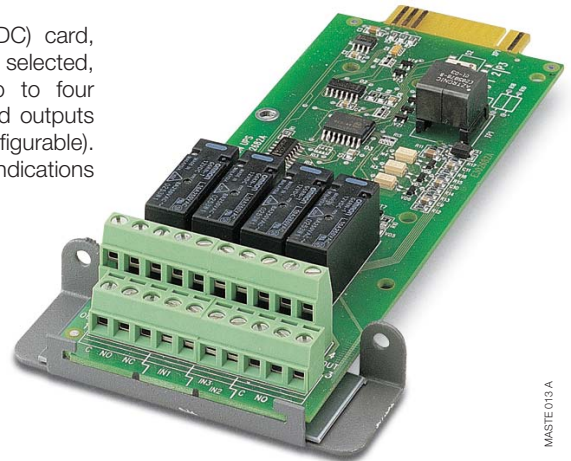
• Remote indication

The Advanced Dry Contact (ADC) card, available according to the model selected, allows the management of up to four normally open or normally closed outputs and up to three digital inputs (configurable). Listed below are some of the indications available.

- Operating status.
- Battery charge low.
- Battery charger fault.
- General alarm.
- Earth leakage fault.

• Local signalling

- Input voltage out of tolerance.
- Output voltage present.
- Battery mode.
- Battery circuit interrupted.
- Floating voltage fault.
- On battery when mains present.
- Slow discharge pre-alarm.
- Slow discharge protection alarm.
- Charger fault.
- Earth leakage fault (option).



MASTE013 A



APPL 156 A