

## GR-24/24V/A Uninterruptible Power Supply with 24V-2A DC output



### TECHNICAL CHARACTERISTICS

OPERATION VOLTAGE	85-265V AC/50-60Hz
MAXIMUM POWER CONSUMPTION	92 VA
SEALD TYPE LEAD ACID (Pb)	2x12V/7Ah (Not included)
OUTPUT	Voltage: 28V DC / 1.8A (max) , battery: 24 V / 1.8A (max)
BATTERY PROTECTION	From overcharge, deep discharge and short circuit
INDICATIONS-LED	Green power LED/fuse state, Green power LED output activation
CHARGING TIME	24 hours
DURATION (at max. load)	2.5 hours (with 1.8Amp load)
REMOTE OUTPUT VOLTAGE	16-30V DC / 3mA (max.)
DEGREES OF COVER PROTECTION	IP42
PRODUCED IN ACCORDANCE WITH	EN 55015, EN 61547, EN 60950-1, EN 61000-3-2, EN 61000-3-3
OPERATION TEMPERATURE RANGE	5 to 40 °C
RELATIVE HUMIDITY	Up to 95%
CONSTRUCTION MATERIALS	ABS/PC
EXTERNAL DIMENSIONS	300 x 95 x 230 mm
TYPICAL WEIGHT	5430gr (With batteries)
GUARANTEE	3 years (1 year for the battery)

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#### GENERAL

The GR-24/24V/A device is a stabilized uninterruptible power supply, providing 24V DC supply to a connected device. The voltage output is stabilized at 28V DC with a maximum load current of 1.8A, while the battery voltage is varied from 20.5 to 27.7V at 1.8A maximum load.

Provides continuous power to external connected devices from its built-in DC power supply while it is connected to the mains. In case of mains loss it powers the external devices from the built-in battery.

This device is used in fire detection systems when the power consumption of the external devices, connected to the fire alarm panel is greater than the maximum power that the panel can supply.

It can also be used to power any other device that requires a 24V DC voltage and also more autonomy duration in its operation. The device also contains the SW1 switch to enable or disable the output for any desired time as shown in the DC OUT indicator on the front of the device.

The LOCAL / REMOTE selection pins is used in conjunction with the REMOTE input at the analog terminal and also sets the output status. If it is not going to be connected to an external device that controls the output of the GR-24 /

24V / A, then the jumper is placed in positions 1-2 (LOCAL) and the output control is controlled by the SW1 switch.

If the output is going to be controlled by an external device, then the jumper is placed in positions 2-3 (REMOTE), SW1 in position ON and the control signal in the REMOTE contacts of the terminal. When a voltage greater than 16V is connected at the REMOTE input, the output of the GR-24 / 24V / A is activated, and if the voltage is less than 16V, the output remains inactive.

#### Example of autonomy calculation

The device's autonomy is battery-proportional (7Ah for GR-24 / 24V / A) and inversely proportional to the consumption of the number of devices.

ie. If you want to connect 10 devices that consume 100mA each, in GR-24 / 24V / A, then the system autonomy will be about 70 hours. If you want to connect 20 devices with the same consumption, the autonomy will be about 35 Hours. In this way you can calculate how many devices can be connected to the GR-24 / 24V / A and how much autonomy the system will have.

The device has a fuse that protects the output from a short-circuit or reversed polarity of the battery poles. When the device is connected to

the mains and the fuse is blown, the POWER/F FAULT indicator will switch off and it indicates that the fuse needs to be replaced.

### ATTENTION!!!

1. Operations for installation, maintenance or testing must be done by authorized personnel only.
2. The device must be connected to the mains power supply through a fuse dependent by the total amount of the line's power load.
3. **It is not allowed to discard batteries in to common trash bins, they must be discarded only in battery recycling points. Do not incinerate.**



### INSTALLATION

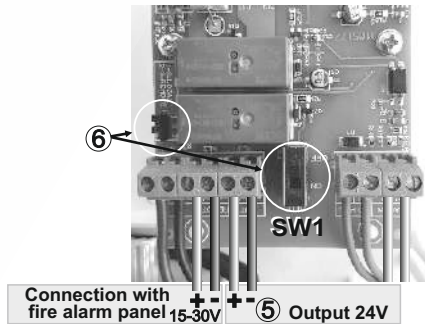
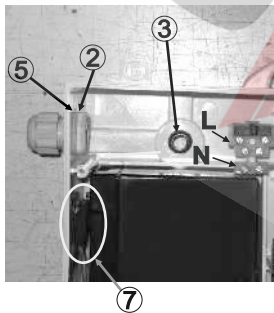
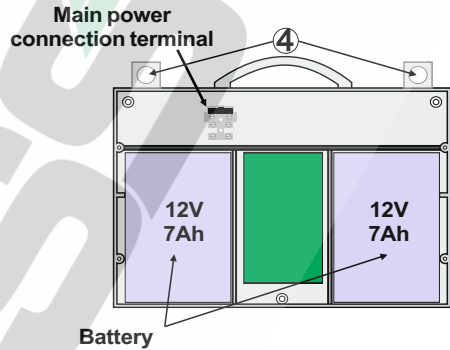
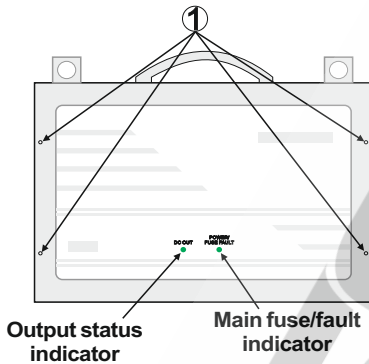
To install the luminaire, follow the installation procedure as described below.

#### Battery replacement

*It is carried out by qualified personnel after a power supply interruption.*

1. Follow step 1 of the installation process.
2. Disconnect the cables and remove the old battery.
3. Connect the same type of new battery (step 7 of the installation process) and replace it with the old battery, paying special attention to the polarity of the connection (the red + battery terminal, the black on -).
4. Follow step 8 of the installation process and power the device.

## INSTALLATION INSTRUCTIONS



1. Unscrew the front mounting screws and remove the front panel.
2. Install the cable gland.
3. Open a hole using a 11 mm drill and insert a ring to pass through the power supply cord (enclosed). Pass the power cord and connect it to terminal L for phase and N for neutral.
4. Place the enclosed support materials and secure the device to the support points.
5. Pass the output cable out of the seal and connect to the + OUT terminals with care to the polarity.

**ATTENTION!!!**

- The output cables must have a diameter of at least 2.5mm.
6. Make sure the switch is ON and the jumper is set to position 1-2.
  7. Connect each terminal to the corresponding battery terminal (red lead to (+) and black lead to (-)). Place each battery in the corresponding mounting position of the plastic base.
  8. Place the front panel and secure it with the screws removed in step 1.
  9. The device is ready for use.

**NOTE!! After finishing the installation you must power the luminaire at least for 24 hours for battery charging to perform the nominal autonomy.**

**WARRANTY**

Olympia Electronics guarantees the quality, condition and operation of the goods. The period of warranty is specified in the official catalogue of Olympia Electronics and also in the technical leaflet, which accompanies each product. This warranty ceases to exist if the buyer does not follow the technical instructions included in official documents given by Olympia Electronics or if the buyer modifies the goods provided or has any repairs or re-setting done by a third party, unless Olympia Electronics has fully agreed to them in writing. Products that have been damaged can be returned to the premises of our company for repair or replacement, as long as the warranty period is valid. Olympia Electronics reserves the right to repair or to replace the returned goods and to or not charge the buyer depending on the reason of deflection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

