

## Safety

### Danger!

Electricity



Injuries and damage of the system due to wrong polarity and short circuits are possible.

When connecting wires and cables, ensure to use the correct polarity.

### Danger!

Electrostatic discharge



Injuries and damage of electronic components are possible due to electrostatic discharge.

- Use antistatic wrist strap while working with the system.

### Caution!

For security reasons it is recommended that the 220-240 volt Mains be provided by an un-switched fused spur point with integral fuse.

### Caution!

Prior to service the fuse in this spur point should be removed and the internal battery disconnected in order to completely power down the unit.

### Caution!

Difficulty identifying Neutral in the Mains Supply

When identification of the Neutral in the Mains Supply is not possible, it is recommended that an additional readily accessible 2-pole disconnect device be provided in the building installation. Not required in UK or Ireland.

## System overview

The power supplies can be used as current supply for equipment used for alarm systems.

## Installation

### Notice!

#### Installation orientation

Install the box to the wall so that the front decal is in the upright position.

1. Attach the box to the wall.

2. Connect Mains lead using 3 core 0.75 cable by using anti-strain gland to correct terminals at Mains Input fuse-block.
3. Make sure the connections are in the correct polarities.
4. Make sure the Mains cable is routed away from other low voltage circuitry inside the box.
5. Connect output load and observe the correct polarity at DC terminals on the PCB.
6. Attach Battery spade leads and observe the correct polarity (red wire = positive, black wire = negative).
7. Apply 220-240 volts Mains
8. Make sure the green LED shows.
9. Remove the DC output fuse to make sure the red LED shows.
10. Replace the fuse and make sure the red LED turns off.
11. Install cable ties to Mains inputs, DC outputs and Micro-switch connecting wires (if used).
12. If applicable, wire the tamper circuit (low voltage only) through the Microswitch.

## Technical data

### Maintenance

The PSU and Battery should be checked at least once annually to make sure no degradation in performance, wiring, or oxidation on battery terminals.

### Specifications

IPS-12V1A-C	1A at 13,8VDC, off load
Ripple	< 0,1V peak to peak
Battery recommended	12 V / 7Ah
Battery recharge	24hours (80% in 14 hours)
Mains input	230 VAC / 50 Hz / 3A max.
Environment	-10°C to + 40°C
Dimensions (BxHxD)	20,8 x 23,5 x 9,8

IPS-12V2A-V	2A at 13,8VDC, off load
Ripple	< 0,1V peak to peak
Battery recommended	12 V / 7Ah
Battery recharge	24hours (80% in 14 hours)

Mains input	230 VAC / 50 Hz / 3A max.
Environment	-10°C to + 40°C
Dimensions (BxHxD)	22,8 x 37 x 9 cm

IPS-24V1A-V	1A at 27,7VDC, off load
Ripple	< 0,1V peak to peak
Battery recommended	2 x 12 V / 7Ah
Battery recharge	24hours (80% in 14 hours)
Mains input	230 VAC / 50 Hz / 3A max.
Environment	-10°C to + 25°C
Dimensions (BxHxD)	22,8 x 37 x 9 cm

IPS-12V3A-V	3A at 13,8VDC, off load
Ripple	< 0,1V peak to peak
Battery recommended	2 x 12 V / 7Ah or 1 x 17Ah
Battery recharge	24hours (80% in 14 hours)
Mains input	230 VAC / 50 Hz / 5A max.
Environment	-10°C to + 40°C
Output	3 relays 500mA
Dimensions (BxHxD)	22,8 x 37 x 9 cm

IPS-24V3A-V	3A at 27,7VDC, off load
Ripple	< 0,1V peak to peak
Battery recommended	2 x 12 V / 7Ah or 1 x 17Ah
Battery recharge	24hours (80% in 14 hours)
Mains input	230 VAC / 50 Hz / 5A max.
Environment	-10°C to + 25°C
Output	3 relays 500mA
Dimensions (BxHxD)	22,8 x 37 x 9 cm

**IPS Series power supplies**

IPS-12V1A-C, IPS-12V2A-V, IPS-24V1A-V,  
IPS-12V3A-VM, IPS-24V3A-VM

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