



# Installation Manual for VPSU-24 Series 24-volt Power Supplies

<b>VPSU-24 Series</b>	
<b>VPSU-24-01A</b>	1A – 24 volts
<b>VPSU-24-02A</b>	2A – 24 volts
<b>VPSU-24-03A</b>	3A – 24 volts
<b>VPSU-24-02B/1</b>	2A – 24 volts, with battery charging
<b>VPSU-24-03B/1</b>	3A – 24 volts, with battery charging

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## Installation

Mount the metal enclosure onto the wall.

Connect the Live, Earth and Neutral terminals to an un-switched fused spur.

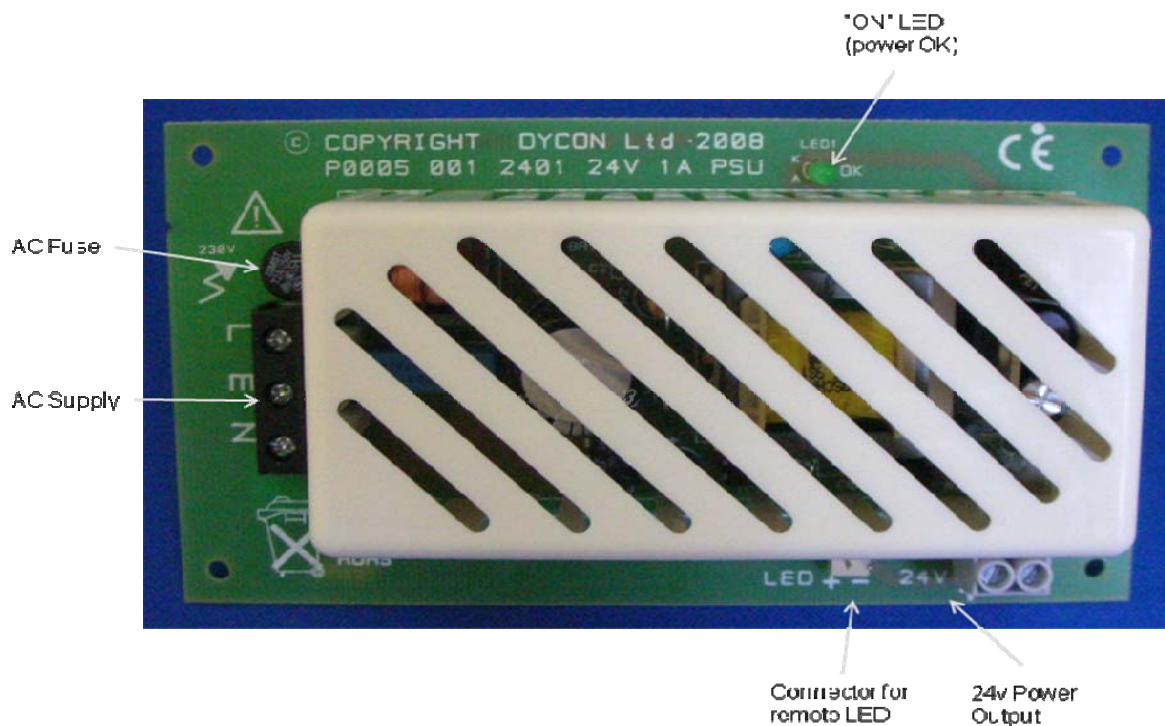
Connect the tamper outputs to the control panel as appropriate (see control panel manual for details).

Connect the 24v power output to the system.

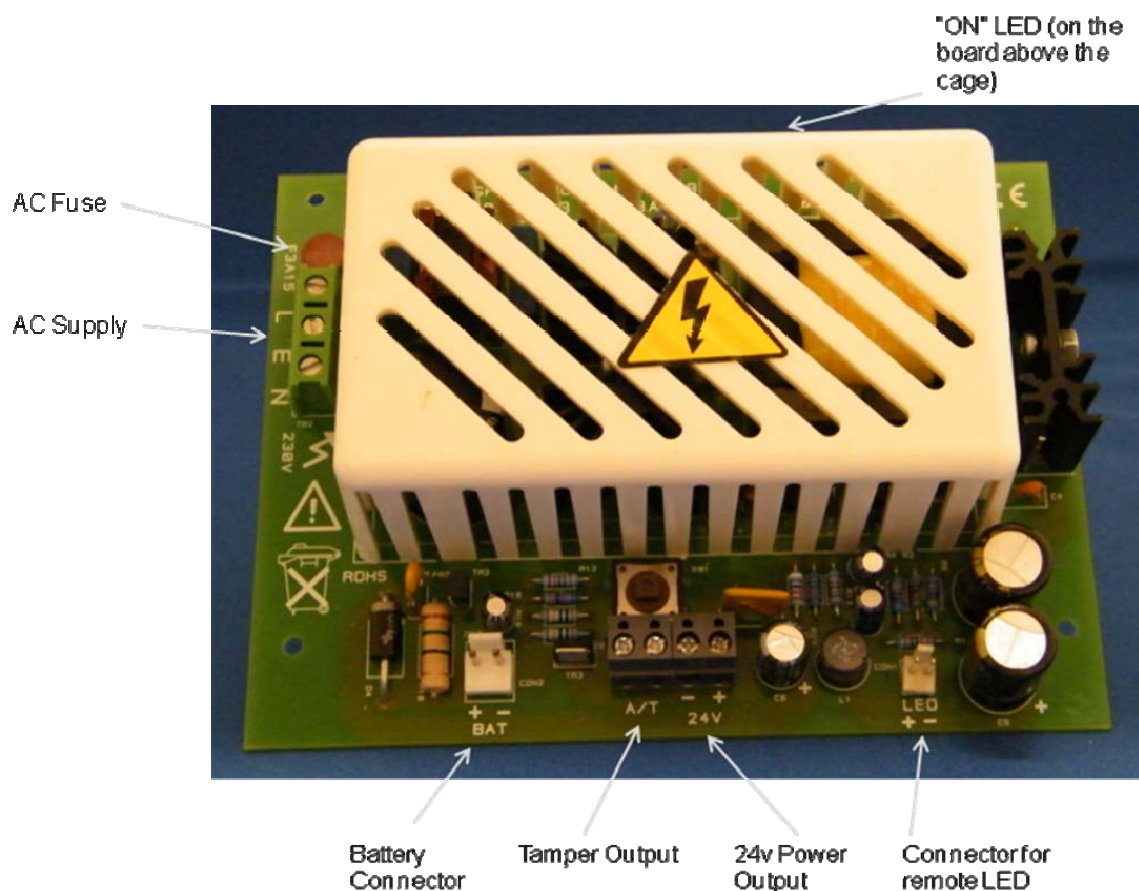
Fit the battery connectors where appropriate (VPSU-24-02B/1 and VPSU-24-03B/1 only).

Switch on the AC supply and confirm that the "ON" LED is lit.

### LAYOUT – VPSU-24-01A / VPSU-24-02A / VPSU-24-03A



## LAYOUT – VPSU-24-02B/1 / VPSU-24-03B/1



### External Power Supply (AC Supply)

The power supply has a three-way terminal block for Live, Earth and Neutral connections, and is protected by a 20mm anti-surge fuse. Mains earth is isolated from the 0v output, although, when supplied boxed, mains earth is connected to the metal enclosure.

### Tamper Output

This voltage free output is connected to the Tamper Switch. These terminals will be shorted when the tamper switch is closed.

### 24V Power Output

Terminal blocks are provided to connect to the system. The “ON” LED indicates that 24V is available from these terminal blocks.

### Auxiliary Power Supply (Batteries)

These power supplies are compatible with 7AH or 8AH Sealed Lead Acid or Gel batteries which are connected to the “BATT” terminals.

If two batteries are to be used, they must be connected in series.

## Battery Protection

The batteries and electronic circuitry are protected against reverse polarity connection by a self-resetting electronic fuse.

## Maintenance

This unit is to be used by service personnel only; there are no user serviceable parts. No maintenance is required other than routine periodic testing and replacement of the standby batteries.

**Please note that high voltage is present under the cage – handle with care. Do NOT touch. Do NOT remove the cage.**

For further information on routine battery replacement, please contact your battery supplier or manufacturer.

## Specifications

<b>Power supply</b>	<b>Type A, Ungraded, Environmental Class 2</b>
AC Input voltage	230v +10% -15%, 50Hz ± 15%
AC Input fuse - VPSU-24-01A - VPSU-24-02A, VPSU-24-02B/1 - VPSU-24-03A, VPSU-24-03B/1	20mm anti-surge fuse rated at: - 230V, 1A - 230V, 2A - 230V, 3A
Output voltage	24v nominal
Output ripple	Less than 100mV
Battery recharge time	Less than 72 hours
Operating temperate range	-10°C to +40°C

## Product Part Numbers

	<b>A Box</b>	<b>B Box</b>
1 Amp – general purpose	VPSU-24-01A	On request
2 Amp – general purpose	VPSU-24-02A	On request
3 Amp – general purpose	VPSU-24-03A	On request
2 Amp – with battery charging	On request	VPSU-24-02B/1
3 Amp – with battery charging	On request	VPSU-24-03B/1

## Sizes and Weights

	<b>PCB</b>	<b>“A” Housing</b>	<b>“B” Housing</b>
Size (H x W x D mm)	130 x 100 x 38	235 x 170 x 85	260 x 320 x 87
Weight (kg)	0.19	2.0	3.2