



Installation Manual for D1501 Ungraded, Type A Power Supply

D1500 Series	
D1501	13.8Vdc 1A output with battery charging

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 manuals for details).

Connect the 12v power output to the system. Fit the battery.

Switch on the AC supply and confirm that the LED marked "230V AC" is lit.

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.

12V power output

Terminal blocks are provided to connect to the system. The "On" LED indicates that 12V 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 used, they must be connected in parallel.

Battery protection

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

Maintenance

This unit is only to be used by qualified service personnel; there are no user serviceable parts. No maintenance is required other than routine periodic testing and replacement of the standby batteries. For further information on routine battery replacement, please contact your battery supplier or manufacturer.

All units are fused in the 230V AC supply. The D1500 Series power supply fuses require no user intervention.

Specifications

Power supply	Type A, ungraded, Environmental Class 2
AC input voltage	230v +10% -15%, 50Hz ± 15%
Output voltage	13.7 nominal
Output ripple	Less than 100mV (less than 0.7% @ 13.7v)
Battery recharge time	Less than 72 hours
Operating temperature range	-10°C to +40°C

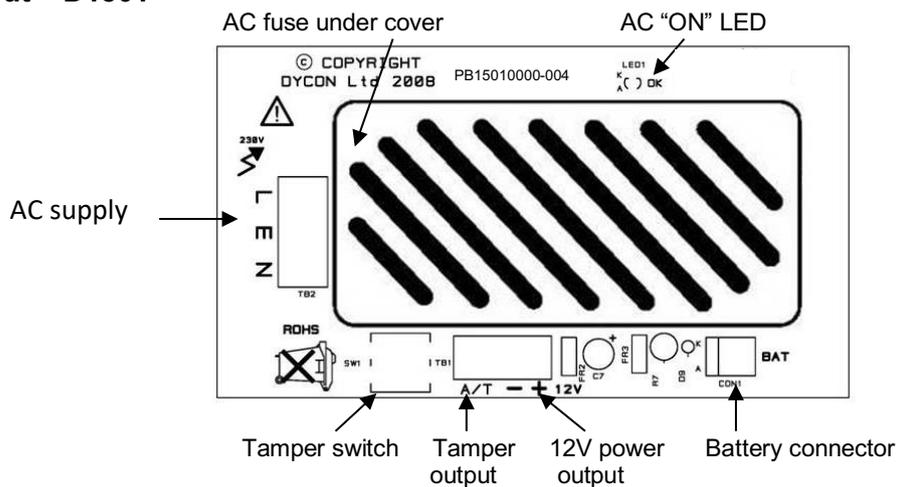
Product part numbers

	PCB-only	A box
1 Amp	D1501-P	D1501-A

Sizes and weights

	PCB	A box
Size (h x w x d) mm	130 x 100 x 38	235 x 170 x 85
Weight (kg)	0.19	2.0

Layout – D1501



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