



DYCON
power solutions

Installation Manual for D1410 Type A 12V 10A Power Supply

Product part numbers

D1410-B	10A in box B
D1410-C	10A in box C
D1410-P	10A – PCB only

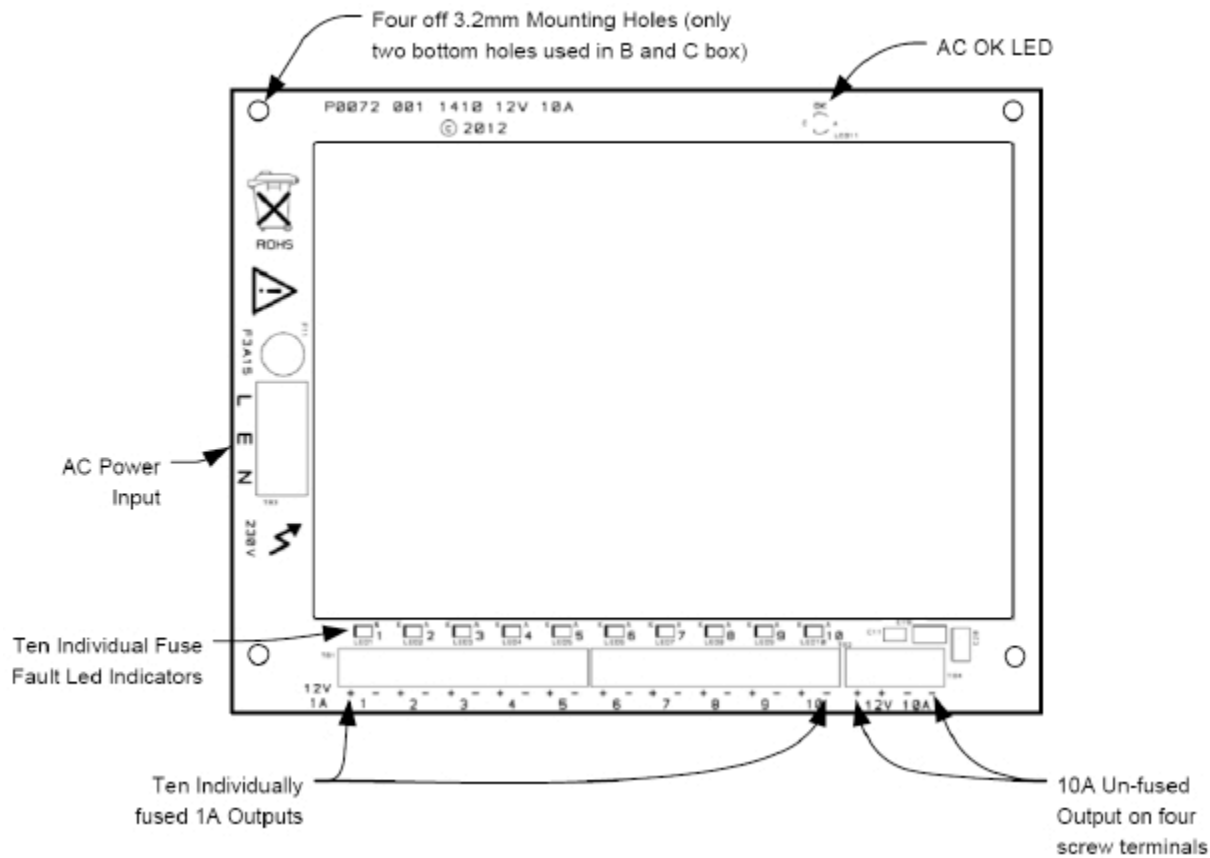
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1 Installation



Remove PCB from the metal box by removing the two lower screws from the power supply board and unclipping the AC OK LED light guide. The light guide can then be pushed out of the mounting hole in box lip for board re-installation after the metal box has been fixed to the wall.

Mount the metal box onto the wall using the top centre keyhole slot for temporary fixing and then mark off the two lower fixing holes and drill, plug and fix for final position.

Remember to secure board back into the box before pushing the light guide in, taking care to align it with the LED.

Four 3.2mm mounting holes are available on 110mm x 150.7mm centres, PCB dimensions are 125.5mm x 163mm.

1.1 Connecting AC Power

The power supply has a three-way terminal block for Live, Earth and Neutral connections, and shall be connected to a fused, un-switched spur outlet. The outlet is to use a 3A fuse. The metal box and lid (via a spade connector and flying lead) will be connected to Earth

1.2 12V power output

The unit can be used in two modes, **either**:

1. Ten individual 1A fused outputs

Or

2. A single 10A un-fused output available on four screw terminals to cater for multiple wire connections.

NOTE – you **cannot** use both modes at the same time.

If using the 10A output ensure that the wire is capable of carrying the current without excess heating or voltage drop.

The 10A output is short circuit protected, however it is advisable to use a fuse due to the high currents that might flow during a fault condition.

The ten 1A outputs are protected by individual resettable fuses, if a fuse trips the output can be restored by either removing the load and fault or switching off the power supply for one minute and then restoring power.

The outputs are normally floating and unconnected to earth. If earth reference is required then the 12V 10A screw terminals should be used.

1.3 Indications

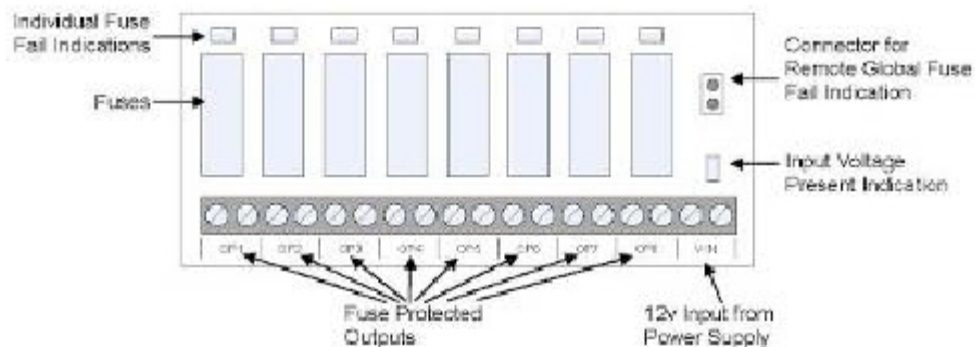
The green AC OK LED is normally illuminated. The LED indicates a normal operational condition if AC power is present, the PSU is not overloaded and has not shut-down due to overheating.

The red fuse fault LEDs are normally extinguished and will illuminate when the output is either shorted or overloaded.

2 D15X8 output splitter

The D15X8 is designed to connect to any Dycon power supply and provide up to 8 individually fused outputs. The D15X8 is supplied fitted with 8 fuses rated at ½ Amp, plus 2 fuses rated at 1 Amp in a spares bag. The installer may fit any combination of fuses, provided that the overall load does not exceed that provided by the power supply.

A red LED is provided for each output, which lights if the relevant fuse ruptures. In addition, a LED indicator is provided which lights when the input voltage is present. A 2-way Molex connector is provided for an LED visible from outside the housing to indicate if ANY fuse fails.



3 Specifications

Power supply	Type A, Environmental Class 2
AC input voltage	230v +10% -15%, 50Hz ± 15%
Maximum input current	1.2A
Output voltage	12V nominal
Output current	10A continuously rated, 1A from fused outputs
Output ripple and noise	Less than 500mV
Operating temperature range	-10°C to +40°C

Sizes and weights

	PCB	“B” size housing	“C” size housing
Size (h x w x d) mm	130 x 100 x 38	260 x 320 x 87	400 x 425 x 100
Weight (kg)	0.19	3.2	4.2

All units are fused in the 230V AC supply. The D1410 power supply fuses are not serviceable.

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.

In case of problems, telephone Dycon Technical Support on +44 (0)1443 471 900,
or email technical@dyconpower.com.