

PowerPro Transformer PSU

inspire

- ▶ Unique multi-output supply designed for use with the Inspire Demonstration Transformer and accessories
- ▶ Output voltage: fixed outputs of 4 & 8 V dc and 2 & 4 V ac
- ▶ Mains coil replacement output: 25 V at up to 10 A with specially modified connectors
- ▶ Resettable short circuit protection on all outputs
- ▶ Shrouded sockets
- ▶ Designed specifically for use in school/college laboratories
- ▶ Designed with enhanced safety to ensure that lethal voltages cannot be produced by inappropriate choice of coils
- ▶ Stackable metal case with integrated ABS carry handles
- ▶ **18 month manufacturer's warranty**

CE to
BSEN61010-2010
(EN 61010-1:2010 3rd Edition)



TRIPLE PROTECTION:

- ▶ Resettable short circuit protection on all outputs
- ▶ Slow-blow fuse protection on mains input
- ▶ Split bobbin transformer with internal resettable fuse protection for transformer

For full details of the Demonstration Transformer Kit, Mains Coil options, the Motor and Induction Accessories, please refer to the SLS catalogue.

POWERPRO TRANSFORMER POWER SUPPLY

This single supply, designed to complement the inspire Demonstration Transformer, supports the full range of induction and motor experiments. Enhanced safety features ensure no lethal voltages can be generated in transformer experiments using the mains coil.

The PowerPro Transformer power supply is a single supply featuring fixed dc and ac outputs for standard transformer investigations, and a special high current output to replace the traditional mains coil.

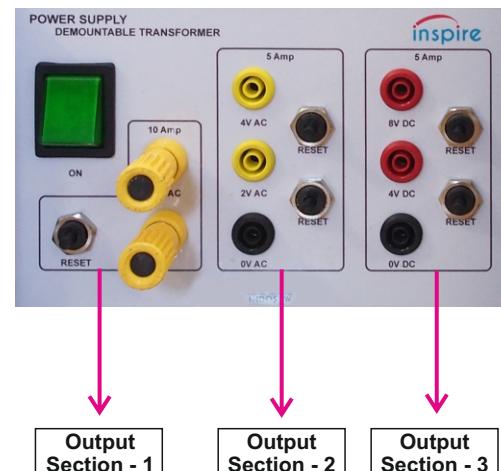
The 25 V output has non-standard connectors which allow only the 100 turn and 300 turn Mains Coil Substitutes to be connected.

These coils have captive leads for connection to the 25 V output of the power supply, and are designed to physically prevent inappropriate coil configurations on the transformer core, which could generate lethal voltages at the secondary coil terminals.

The 800 turn Mains Coil is still available as a separate item, but only for use in teacher/technician demonstrations.

Fuse replacement

The mains socket on the back panel has a compartment for two fuses. It can be opened using a flat bladed screwdriver as shown. The front fuse is a spare. It is a 5 x 20 mm time delay or "slow blow" T-3.15A 250V fuse.



Output section-1

Has a fixed output of 25 V ac at 10 A max (8 A continuous). This output has special connectors matching the Mains Coil Substitute leads, and is used for experiments with the induction accessories.

Overload reset

In the event of short circuit or overload all outputs are protected by individual thermal trips. 25 V output can be restored by removing the problem and pressing the RESET button. It might be necessary to wait a short time, to allow the thermal trip to cool.



Output section-2

Has fixed outputs of 2 V & 4 V ac at 5 A max. This section is mainly used for investigations of primary to secondary turns ratios.

The 2 V & 4 V ac outputs are protected by independent thermal trips. Operation can be restored by removing the problem and pressing the RESET button after a brief cooling period.

Output section-3

It has fixed outputs of 4 V & 8 V dc at 5 A max. This section is mainly used for motor investigations with the demonstration transformer motor accessories.

The 4 V & 8 V dc outputs are protected by independent thermal trips. Operation can be restored by removing the problem and pressing the RESET button after a brief cooling period.

IEC mains lead

This is protected by a standard T-5A 250V fuse in the mains plug.

Power input : 360 VA
Dimensions : 25 x 26.5 x 13.5 mm
Weight : 6.6 kg

Operating temperature range: 5°C to 40°C
Operating humidity range: upto 80% RH
For Indoor use only

WEEE directive

This symbol indicates that the electronic equipment should not be disposed of in the normal waste. It should be recycled in accordance with the WEEE directive.

