

## CHARGE CONTROLLER TEST POWER SUPPLY



The **Micha Test Power Supplies** have been designed to assist in the commissioning of the MSR<sub>x</sub> range of solar charge controllers, as well as any other similar application where a portable and variable low power voltage source is required.

The units will operate from any voltage between 9 and 60VDC, with user-selectable ranges covering typical voltages expected from battery systems in varying states of charge and discharge.

A 10-turn wire-wound potentiometer allows precision control of the output voltage which is isolated from the input for maximum flexibility.

Although intended for use where the output potential is in the same range as the supply, the wide input voltage range allows any combination. For example, a 36V to 68V output can be obtained from a 12V battery.

The power supply contains two low power isolating DC-DC converters. The first provides an internal 24V supply to cater for the 9-17V output range, with the second, an additional 48V supply, being switched in only for the 18-34V and 26-68V ranges.

The power supply is housed in a robust ABS plastic enclosure, with two pairs of 4mm nickel-plated brass terminals allowing the use of standard 'banana' plugs and/or stripped wires. LED indicators show the selected output range and when the maximum 10mA output current is exceeded.

### General Specification:

**Order code :**

Part No. **101 126** : Output ranges 12V / 24V / 48V

Part No. **102 779** : Output ranges 24V / 36V / 48V

**Supply Input Voltage :**

9VDC to 60VDC

**Output Voltages :**

101 126: 12V range: 9V to 17V

24V range: 18V to 34V

48V range: 36V to 68V

102 779: 24V range: 18V to 34V

36V range: 27V to 51V

48V range: 36V to 68V

**Supply Input Voltage :**

9VDC to 60VDC

**Nominal Power Consumption (no load) :**

12V supply: 18mA to 38mA | 48V supply: 13mA to 21mA

**Ripple :**

<25mVpp with 100K load

**Operating Temperature Range :**

0°C to +55°C

**Enclosure :**

Black ABS

**Terminals:**

4mm sockets / binding posts; Nickel-plated Brass

**Dimensions :**

66 x 40 x 185mm including terminals and adjustment/selection knobs.

Weight: 200gm

**Note:** the terminals can be used with both 4mm plugs and/or stripped cable, allowing a monitoring voltmeter to be connected in parallel with the incoming or outgoing connections.



**Warning:**

*Dangerous voltages can be produced using this equipment.*