

# 1410

## 90W DC POWER SUPPLY

### Applications

The 1410 provides clean and stable DC output which is most suitable for many areas including:

- Educational labs
- Industrial
- Field service
- Technical schools
- Internal training facilities
- Hobbyists



### Overview

The 1410 Power Supply is a high quality serial control type DC Regulated Power Supply. This model can be operated at constant voltage or constant current mode whose output can be varied from 0 to 30 volts.

This compact unit has separate 3-digit LED voltage and current meters for monitoring of the output voltage and current simultaneously. In terms of operability, the 1410 enables high precision, continuous variability via coarse and fine adjust knobs. The 1410 can be connected in parallel with multiple units of the same model, set up in "Master/Slave" configuration, to increase the output current capability.

### Features

- 0-30 V, 3 A Variable Output
- Constant Voltage/Constant Current
- Excellent line and load regulations
- Low ripple and noise
- Simultaneously monitor voltage and current
- Coarse and fine adjust knobs
- Overload, short circuit, and over current protections
- The limiting current values can be preset in the full range of the rated values.
- Multiple units of the 1410 can be connected in series to provide higher output voltage
- Multiple of the 1410 can be connected in parallel (Master/Slave configuration) to achieve higher output current

All specifications apply to the unit after a temperature stabilization time of 15 minutes over an ambient temperature range of  $25\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ .

1410 Power Supply	
OUTPUT VOLTAGE	0–30 V
OUTPUT CURRENT	3 A
<b>CONSTANT VOLTAGE CHARACTERISTICS</b>	
Load regulation (0-100%)	0.02% +3 mV
Line regulation ( $\pm 6\%$ )	0.02% +3 mV
Ripple and noise r.m.s	1 mV
<b>CONSTANT CURRENT CHARACTERISTICS</b>	
Load regulation (0-100%)	0.02% +3 mA
Line regulation ( $\pm 6\%$ )	0.02% +3 mA
<b>OUTPUT</b>	
Output terminals ( color )	( + ) Red, ( – ) Black, (GND) Green
Ground proof voltage	$\pm 180\text{ V}$
<b>INSTRUMENTATION</b>	
Voltmeter	3 digits
Ammeter	3 digits
<b>FUNCTIONS</b>	
Serial connection ( independent control mode )	Can be connected in series (within limits of ground proof voltage)
Parallel operation ( master – slave mode )	Can be operated in “one-control” parallel configuration (only same model)
<b>COOLING SYSTEM</b>	Natural Convection

**POWER CONSUMPTION**

VA / W ( for rated load of AC 220 V )	Approximate 220
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**INPUT VOLTAGE**

Voltage, Frequency	120/240 VAC, 50/60 Hz Switchable
Operating ambient temperature	5–40°C 10–80% R.H.

**DIMENSIONS AND WEIGHT**

Dimensions ( W x H x D )	205 x 115 x 270 ( mm )
Weight	Approximate 7.4 kg

**FUSE RECOMMENDED**

Input fuse F2	
AC 100V, 110V, 120V	3AF
AC 220V, 230V, 240V	2AF
Internal fuse F1	500 mAF

Specifications are subject to change without notice. To ensure the most current version of this manual, please download the current version from our website: [globalspecialties.com](http://globalspecialties.com).