

# DUAL OUTPUT DC POWER SUPPLY

## Applications

The 1415 Dual Output DC Power Supply is ideally suited for applications where value and quality are equally important such as for:

- Educational labs
- Technical schools
- Internal training facilities
- Hobbyists



## Overview:

The 1415 features dual independent outputs. The variable supply provides up to 30 V at 3 A. The fixed output offers 5 V at 3 A. Automactic crossover between the Constant Current and Constant Voltage modes allows continuous transition from CC to CV modes in response to load condition changes.

Connect multiple units in series or parallel for greater voltage or current outputs.

## Features:

- One variable output: 0-30 V / 0-3 A
- One fixed output: 5 V / 3 A
- Separate 3-digit displays for voltage and current on the variable output
- Individual control of voltage and current for the variable output
- CV (constant voltage) / CC (constant current) mode operation
- LED indication for CV / CC mode
- Overload LED indicator and foldback protection for the fixed output
- Operate multiple units in series or in parallel for greater output
- Power On/Off switch on front panel
- Input voltage selection on rear side (120/240 VAC)
- Binding posts on output terminals



## SPECIFICATIONS

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

### Model 1415 comes with:

1415 Power Supply

Power Cord

User Manual

Banana Plug to Alligator Clip Lead Wires

1415 Dual Output DC Power Supply	
<b>Output Parameters</b>	
Max Output Power	105 W
Number of Outputs	2 independent & electrically isolated outputs
Range	Variable: 0-30 VDC / 0-3 A Fixed: 5 V / 3 A
<b>Load Regulation</b>	
CC Mode	<15 mA
CV Mode	$\pm 0.05\% + 32 \text{ mV}$
Fixed 5 V Output	<70 mV
<b>Line Regulation</b>	
CC Mode	$\pm 0.05\% + 2 \text{ mA}$
CV Mode	$\pm 0.05\% + 2 \text{ mV}$
Fixed 5 V Output	<5 mV
<b>Ripple &amp; Noise</b>	
CC Mode	<2.5 mArms
CV Mode	<0.4 mVrms
Fixed 5 V Output	<1.5 mVrms
<b>Display Accuracy</b>	
Voltage & Current	0.1% + 2 digits
Fixed 5 V Output	$\pm 0.25 \text{ V}$
<b>General</b>	
AC Input	VAC 115/230 $\pm 10\%$ , 50/60 Hz
Operating Temperature	50 °F to 104 °F (10 °C to 40 °C)
Operating Humidity	90% R.H.
Dimensions (W x H x D)	9 x 6.7 x 12.2 in (230 x 170 x 310 mm)
Weight	13.3 lbs (6.0 kg)
Warranty	One-year warranty
Included Accessories	Power cord, user manual, one pair of test leads

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).



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