

1412

80W TRIPLE RANGE SWITCHING POWER SUPPLY

Applications

The 1412 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 Model 1412 is a general purpose triple range DC power supply. This switching mode power supply is like having three power supplies in one.

Its compact and slim size makes it ideal for limited bench space.

This power supply is well suited for a wide variety of electrical and electronics applications in service shops, engineering labs, production facilities, school laboratories, and home use.

Features

- 80 W output
- Performs like 3 power supplies in one
- Three selectable ranges: 0-16V/0-5A, 0-27V/0-3A, 0-36V/0-2.2A
- Remote sensing for accurate applied voltage at load point
- Compact, lightweight, and slim tower housing for limited bench space
- Constant voltage (CV) and constant current (CC) operation
- 4-Digit LED displays
- Front/Rear output terminals
- Master/Slave connections

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

Specifications

Output Ratings	
Max Output Power	80 W
Range 1: 0-16V / 5A	0 - 16.4 V, 0 - 5.1 A
Range 2: 0-27V / 3A	0 - 27.6 V, 0 - 3.1 A
Range 3: 0-36V / 2.2A	0 - 36.8 V, 0 - 2.3 A
Input AC Voltage Range	90 - 264 VAC
Load Regulation	
CC Mode	$\leq 10\text{ mA}$
CV Mode	$\leq 50\text{ mV}$
Line Regulation	
CC Mode	$\leq 10\text{ mA}$
CV Mode	$\leq 4\text{ mV}$
Ripple & Noise	$\leq 30\text{ mVp-p}$
Metering Accuracy	
Voltmeter Accuracy	Output $\leq 5\text{ V} \pm 0.5\%$ +5 counts Output $> 5\text{ V} \pm 0.5\%$ +3 counts
Ammeter Accuracy	Output $\leq 2\text{ A} \pm 0.5\%$ +5 counts Output $> 2\text{ A} \pm 0.5\%$ +3 counts
General	
AC Line Input	90-264 VAC, 47-63 Hz
Efficiency	$\geq 75\%$
Power Factor	≥ 0.9

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Specifications

Protection	Adjustable Upper Voltage Limit, Current Limiting Protection, Short Circuit, Overload, Over Temperature Protection
Dimensions (WxHxD)	53.5 x 127 x 330 mm (2 x 5 x 13 in)
Weight	1.9 kg (4.2 lbs)
Operating Environment	10-80% RH Altitude up to 2000 m Pollution degree 2

Specifications are subject to change without notice.

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