

# Special Purpose Power Supply

## 80W Constant Power Switching



### Description

This laboratory grade constant- power SMPS with 3 selectable voltage & current limits operates like 3 separate power supplies with different V and I range. The master & slave design allows up to 5 units in parallel with simple master control. Constant current limit can be set with output open circuit.

Over voltage protection limit can also be adjusted to offer protection of voltage sensitive load. Output On-Off button switch allows safe operation of quick change over of load or VI range. The Remote sensing feature makes up for voltage drop due to distant load or heavy current load loss to ensure accurate voltage at the load point.

### Features:

- Constant Power design with 3 VI configurations
- 0-16V/0-5A ;0-27V/0-3A; 0-36V/0-2.2A
- Master & Slave setting and Remote Sensing
- Constant Current adjustment with output open circuit
- Output On-Off switch
- 4 digit LED meter displays
- Smooth tuning control due to rotary encoder design

### Specifications:

Input Voltage Range	: 100V AC to 240V AC
No Load Input Current at 230V AC	: ≤0.13A
Full Load Input Current at 230V AC	: ≤0.5A
AC Input Frequency	: 47 - 63Hz
Efficiency	: ≥78%
Power Factor	: ≥0.9

#### Constant Voltage and Current Range Selection

0 - 16V / 5A selection I	: 0 - 16.4V 0 - 5.1A
0 - 27V / 3A selection II	: 0 - 27.6V 0 - 3.1A
0 - 36V / 2.2A selection III	: 0 - 36.8V 0 - 2.3A

#### Constant Voltage Characteristics

Load Regulation (0 - 100%)	: ≤50mV
Line Regulation (±10%)	: ≤4mV
Ripple & Noise (peak-peak)	: ≤30mV

#### Constant Current Characteristics

Load Regulation (0 - 100%)	: ≤10mA
Line Regulation (±10%)	: ≤10mA

#### Meter Accuracy

Volt. Meter Accuracy	: ±0.5% +5counts
Curr. Meter Accuracy	: ±0.5% +5counts
Protection	: Adjustable upper voltage limit, Current limiting protection, Short circuit, Overload, Over temperature



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Output Terminals	: Front of housing
Additional Function	: Remote sensing
Cooling Method	: Natural Convection
Dimensions (W × H × D)	: 53.5mm × 127mm × 330mm (2" × 5" × 13")
Weight	: Approx. 1.9kgs / 4.2lbs

**Note:**

All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa

### Part Number Table

Description	Part Number
80W Constant Power Switching Mode Power Supply	72-8355

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