

1325

80W POWER SUPPLY WITH USB OUTPUT

Applications

The 1325's small size and quiet operation make it ideal for laboratory, work shop, or educational applications where bench space is limited.

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



Overview

The 1325 is DC power supply which gives 80 W of power output. By using a digital + / - keypad operation control, you can easily set the output voltage and current levels.

Only 8 inches long, this unit fits on the bench where others units wouldn't.

The USB output is perfect for charging a cell phone.

Features

- Power: 80 W
- Voltage: 1-16 VDC
- Current: 0-5 A
- USB charging port, 5 VDC and 1.2 A Max
- Small compact size
- 3-Digit display shows voltage or current
- Automatic crossover and constant current (CC)
- Constant voltage operation (CV)
- Tracking Over Voltage Protection (OVP)
- Over Temperature Protection (OTP)

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

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Electrical Specifications

Output Voltage	1–16 VDC
Output Current	0-5 A
Switching Operation Frequency	80 kHz to 120 kHz
Efficiency at Max Power	$\geq 82\%$
Voltmeter and Ammeter Display	3 Digit 7-Segments LED
Voltmeter Accuracy	+1% rdg + 3 digits.
Ammeter Accuracy	+1% rdg + 5 digits
Resolution	0.1V, 0.01A
Line Input	100-120 VAC (50-60 Hz) $\pm 10\%$
Full Load Input Current at 110 VAC	1.8 A
Cooling System	Natural Convection

Constant Voltage Characteristics

Load regulation (10%-90%)	$\pm 50\text{ mV}$
Line regulation (min to max)	$\pm 20\text{ mV}$
Ripple (rms)	$\pm 20\text{ mV}$
Noise (peak to peak)	$\pm 100\text{ mV}$

Constant Current Characteristics

Load regulation (10%-90%)	$\pm 30\text{ mA}$
Line regulation (min to max)	$\pm 10\text{ mA}$

USB Output

Output Voltage	5 V ($\pm 5\%$)
Output Current	1.2 A Max

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Environmental Conditions	
Operating Temp/Humidity	max RH of 80% at 31°C decreasing linearly to 50% at 40°C
Altitude	up to 2,000 m
Polution Degree	Polution Degree 2
Mechanical Characteristics	
Weight	3.0 lbs (1.4 kg)
Dimensions	2.8 x 6.0 x 7.9 in (70 x 150 x 200 mm)

Specifications are subject to change without notice.

