

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 $^{\circ}$ C ± 5 $^{\circ}$ C.

1325 Power Supply

Electrical SpecificaitonsOutput Voltage1–16 VDCOutput Current0-5 ASwitching Operation Frequency80 kHz to 120 kHzEfficiency at Max Power $\geq 82\%$ Voltmeter and Ampmeter Display3 Digit 7-Segments LEDVoltmeter Accuracy+1% rdg + 3 digits.Ammeter Accuracy+1% rdg + 5 digitsResolution0.1V, 0.01ALine Input100-120 VAC (50-60 Hz) ±10%Full Load Input Current at 110 VAC1.8 ACooling SystemNatural ConvectionConstant Voltage CharacteristicsLoad regulation (10%-90%)±50 mVLine regulation (min to max)±20 mVRipple (rms)±20 mVNoise (peak to peak)±100 mVConstant Current CharacteristicsLoad regulation (10%-90%)±30 mALine regulation (min to max)±10 mA		
Output Current0-5 ASwitching Operation Frequency80 kHz to 120 kHzEfficiency at Max Power \geq 82%Voltmeter and Ampmeter Display3 Digit 7-Segments LEDVoltmeter Accuracy+1% rdg + 3 digits.Ammeter Accuracy+1% rdg + 5 digitsResolution0.1V, 0.01ALine Input100-120 VAC (50-60 Hz) \pm 10%Full Load Input Current at 110 VAC1.8 ACooling SystemNatural ConvectionConstant Voltage CharacteristicsLoad regulation (10%-90%) \pm 50 mVLine regulation (min to max) \pm 20 mVRipple (rms) \pm 20 mVNoise (peak to peak) \pm 100 mVConstant Current CharacteristicsLoad regulation (10%-90%) \pm 30 mA	Electrical Specificaitons	
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Voltmeter and Ampmeter Display3 Digit 7-Segments LEDVoltmeter Accuracy+1% rdg + 3 digits.Ammeter Accuracy+1% rdg + 5 digitsResolution0.1V, 0.01ALine Input100-120 VAC (50-60 Hz) ±10%Full Load Input Current at 110 VAC1.8 ACooling SystemNatural ConvectionConstant Voltage CharacteristicsLoad regulation (10%-90%)±50 mVLine regulation (min to max)±20 mVRipple (rms)±20 mVNoise (peak to peak)±100 mVConstant Current CharacteristicsLoad regulation (10%-90%)±30 mA	Switching Operation Frequency	80 kHz to 120 kHz
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Ammeter Accuracy $+1\%$ rdg $+ 5$ digitsResolution $0.1V, 0.01A$ Line Input $100-120$ VAC (50-60 Hz) $\pm 10\%$ Full Load Input Current at 110 VAC 1.8 ACooling SystemNatural ConvectionConstant Voltage CharacteristicsLoad regulation (10%-90%) ± 50 mVLine regulation (min to max) ± 20 mVRipple (rms) ± 20 mVNoise (peak to peak) ± 100 mVConstant Current CharacteristicsLoad regulation (10%-90%) ± 30 mA	Voltmeter and Ampmeter Display	3 Digit 7-Segments LED
Resolution0.1V, 0.01ALine Input100-120 VAC (50-60 Hz) ±10%Full Load Input Current at 110 VAC1.8 ACooling SystemNatural ConvectionConstant Voltage CharacteristicsLoad regulation (10%-90%)±50 mVLine regulation (min to max)±20 mVRipple (rms)±20 mVNoise (peak to peak)±100 mVConstant Current CharacteristicsLoad regulation (10%-90%)±30 mA	Voltmeter Accuracy	+1% rdg + 3 digits.
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Cooling SystemNatural ConvectionConstant Voltage CharacteristicsLoad regulation (10%-90%)±50 mVLine regulation (min to max)±20 mVRipple (rms)±20 mVNoise (peak to peak)±100 mVConstant Current CharacteristicsLoad regulation (10%-90%)±30 mA	Line Input	100-120 VAC (50-60 Hz) ±10%
Constant Voltage CharacteristicsLoad regulation (10%-90%)±50 mVLine regulation (min to max)±20 mVRipple (rms)±20 mVNoise (peak to peak)±100 mVConstant Current CharacteristicsLoad regulation (10%-90%)±30 mA	Full Load Input Current at 110 VAC	1.8 A
Load regulation (10%-90%) ±50 mV Line regulation (min to max) ±20 mV Ripple (rms) ±20 mV Noise (peak to peak) ±100 mV Constant Current Characteristics ±30 mA	Cooling System	Natural Convection
Line regulation (min to max)±20 mVRipple (rms)±20 mVNoise (peak to peak)±100 mVConstant Current CharacteristicsLoad regulation (10%-90%)±30 mA	Constant Voltage Characteristics	
Ripple (rms)±20 mVNoise (peak to peak)±100 mVConstant Current CharacteristicsLoad regulation (10%-90%)±30 mA	Load regulation (10%-90%)	±50 mV
Noise (peak to peak)±100 mVConstant Current CharacteristicsLoad regulation (10%-90%)±30 mA	Line regulation (min to max)	±20 mV
Constant Current CharacteristicsLoad regulation (10%-90%)±30 mA	Ripple (rms)	±20 mV
Load regulation (10%-90%) ±30 mA	Noise (peak to peak)	±100 mV
	Constant Current Characteristics	
Line regulation (min to max) ±10 mA	Load regulation (10%-90%)	±30 mA
	Line regulation (min to max)	±10 mA
USB Output	USB Output	
Output Voltage 5 V (±5%)	Output Voltage	5 V (±5%)
Output Current 1.2 A Max	Output Current	1.2 A Max



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1325 Power Supply

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. To ensure the most current version of this manual, please download the current version from our website: <u>globalspecialties.com</u>.





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