

12W Constant Voltage Power Supply - 12v / 1Amp



Features:

- Constant voltage design
- Universal AC input / Full range
- Cooling by free air convection
- 100% full load burn-in test
- Isolation class II
- UL1310 Class 2 power unit
- Fully encapsulated with IP67 level
- Protection: Short circuit, Under/Over Voltage

Specifications

Output	
Voltage	12V DC
Rated Current	1A
Current Range	0 -1A
Rated Power	12W
Line Regulation	± 1%
Load Regulation	± 2%
Voltage Tolerance	± 5%
Ripple & Noise (Max.)	120Mvp-P
Setup, Rise Time	500ms, 250ms At Full Load
Hold Up Time (typ.)	50ms / 230VAC at full load

Input	
Voltage	90 - 264Vac
Frequency Range	47- 63Hz
Efficiency (typ.)	76%
Ac Current (typ.)	0.3A/115Vac, 0.14A / 230Vac
Inrush Current (typ.)	30A / 230Vac
Leakage Current (Max.)	0.25Ma / 240Vac

Protection	
Over Current	Range: 110 - 180%
Frequency Range	Type: Hiccup Mode, Auto-Recovery.
Short Circuit	Type: Hiccup Mode, Auto-Recovery
Over Voltage	13 - 20V
Inrush Current (typ.)	Type: Hiccup Mode, Auto-Recovery



12W Constant Voltage Power Supply - 12v / 1Amp

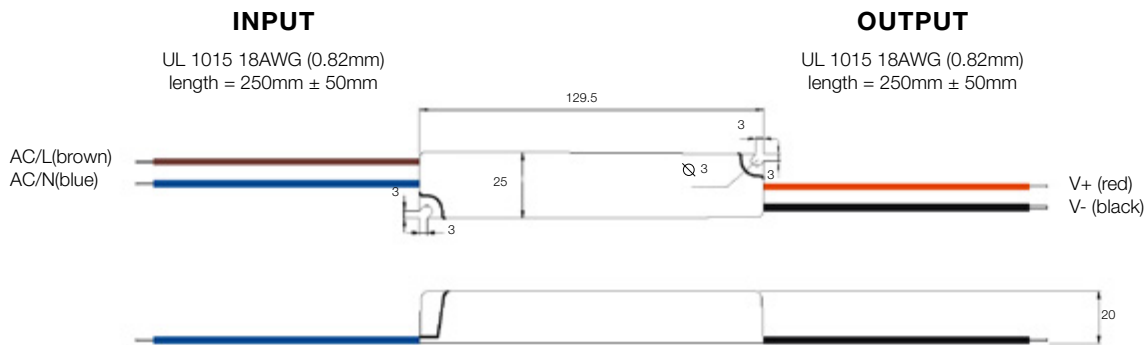
Environment	
Working Temperature	-30°C - 70°C (Refer To Derating Curve)
Working Humidity	20 - 90% Rh Non-Condensing
Storage Temperature And Humidity	-40°C - 80°C, 10 - 95% Rh Non-Condensing
Temperature Coefficient	± 0.03% / °C (0°C - 50°C)
Vibration	10 - 500Hz, 2G, 10Min / Cycle, Period For 60Min. Each Along X, Y, Z Axes

Safety & EMC Regulations	
Safety Standards	Compliance To En61347-1, En61347-2-13, Ip67
Withstand Voltage	I-P/O-P: 3Kvac
Isolation Resistance	I-P/O-P; O-P/Fg; I-P/Fg: 100M Ω /500Vdc/25°C/70%
EMC Emission	Compliance To EN55015
EMC Immunity	Compliant To EN61547; En55024; EN61000-4-2, -3, -4, -5, -6, -8, -11
Harmonic Current	Compliance To EN61000-3-3; EN61000-3-2

Other	
Dimensions	129.5 X 25 X 20mm

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5. Power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment must be re-qualified to comply with EMC Directives.

Mechanical



Derating Curve

