



24V / 60W Hardwire Power Adaptor



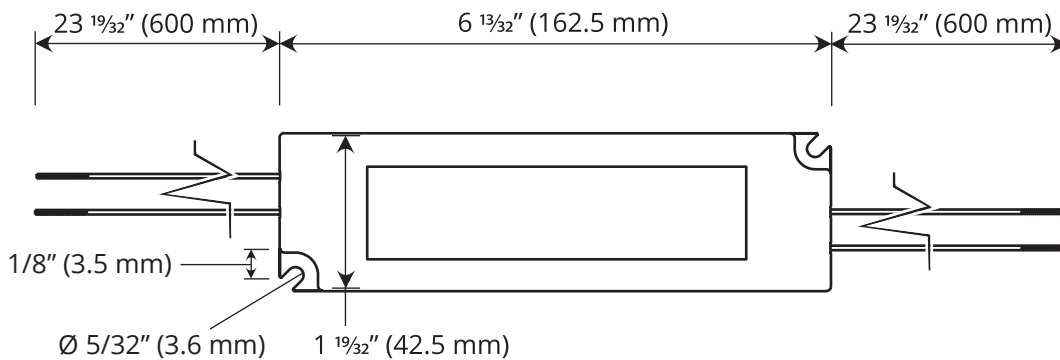
A low cost, 60 W constant voltage hardwire power adapter with UL Class 2 certification.



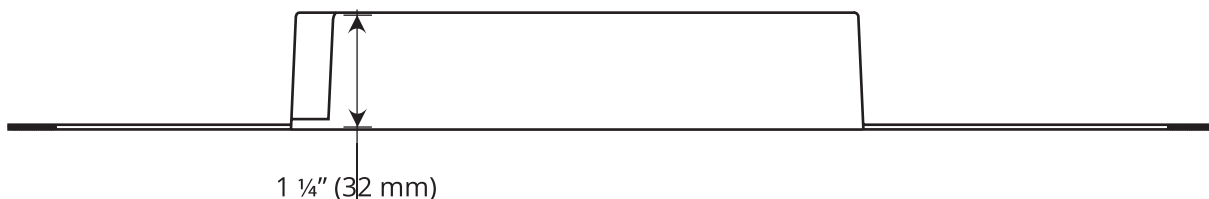
KEY FEATURES & BENEFITS

- Consistent voltage design
- Universal AC input / full range
- Epoxy encapsulated with IP67 level
- Withstand 3000 VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage
- Fully isolated plastic case
- Cooling by free air convection
- Class 2 power unit
- 100% full load burn-in test
- Low cost, high reliability

TOP VIEW



PROFILE VIEW

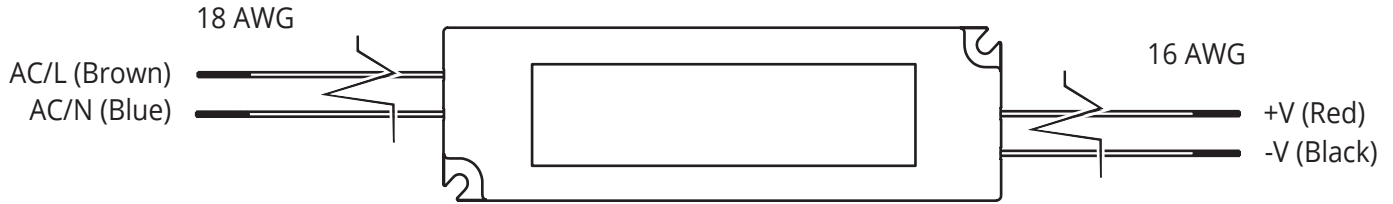




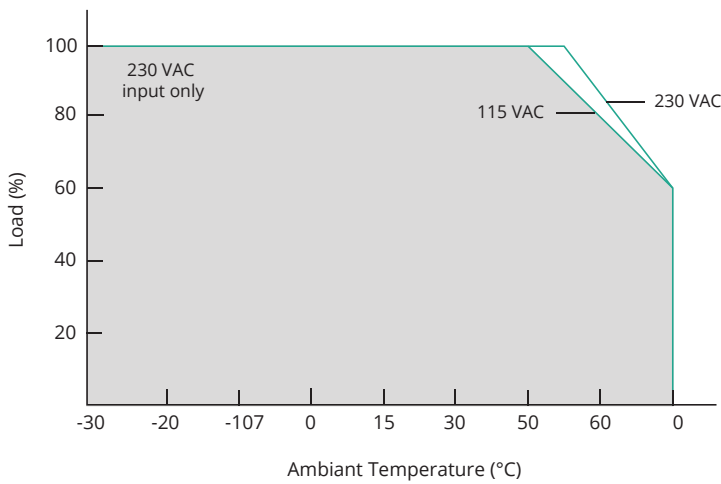
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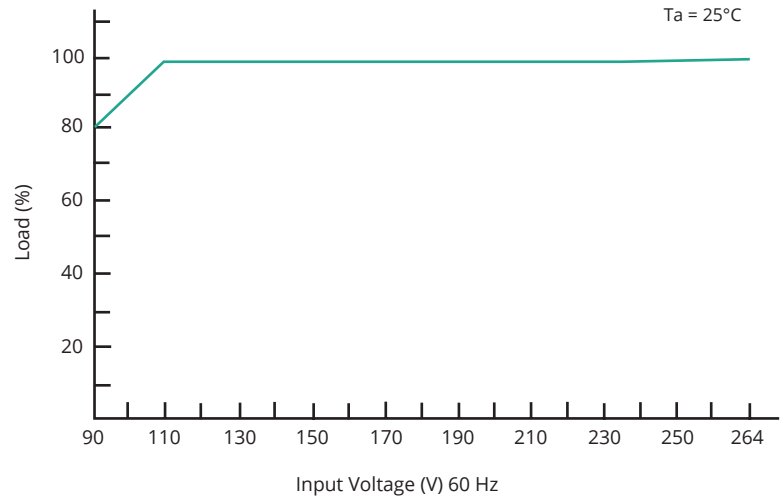
ELECTRICAL COMPONENTS



DERATING CURVE



STATIC CHARACTERISTICS



SPECIFICATIONS

Input

Voltage Range	90 ~ 264 VAC
Frequency Range	47 ~ 36 Hz
Power Factor	PF 0.95 / 230 VAC; PF 0.98 / 115 VAC at full load and rated output voltage; PF 0.9 at 75 ~ 100% load
Efficiency	86%
AC Current	1.2 A (rms) / 115 VAC; 1 A (rms) / 230 VAC
Inrush Current	Cold start 30 A / 115 VAC; 60 A / 230 VAC
Leakage Current	< 250 μ A / 240 VAC

Output

DC Voltage	24 VDC
Constant Current Region ¹	18 ~ 24 V
Rated Current	2.5 A
Power	60 W
Current Range	0 ~ 2.5 A



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SPECIFICATIONS	
Output	
Ripple and Noise ²	150 mVp-p
Voltage Tolerance ³	± 5%
Line Regulation	± 1%
Load Regulation	± 2%
Setup, Rise Time ⁴	500 ms, 20 ms / 230 VAC / 115 VAC; 500 ms, 20 ms / 115 VAC at full load (for 5 - 36 V)
Hold Up Time (Typ.)	50 ms / 230 VAC; 16 ms / 115 VAC at full load
Protection	
Over Current ⁵	100 ~ 150% rated output power
Over Voltage ⁶	27.6 V ~ 32.4 V
Environment	
Operating Temperature	-30 °C ~ +70 °C (refer to output load derating curve)
Storage Temperature	-40 °C ~ +80 °C
Operating Humidity	20% ~ 90% RH non-condensing
Storage Humidity	10% ~ 90% RH
Temp. Coefficient	± .03% / °C (0 ~ +50 °C)
Vibration	10 ~ 500 Hz, 2G 10 minutes / 1 cycle, period for 60 minutes each along X, Y, Z axes
Class 2 Compliant	Yes
Withstanding Voltage	I/P-O/P: 3 kVAC
Isolation Resistance	I/P-O/P: >100 M Ohms / 500 VDC / 25°C / 70% RH
EMI Conduction & Radiation	Compliance to EN55022 (CISPR22) Class B
Harmonic Current	Compliance to EN61000-3-2,-3
EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A
Certifications	UL Class 2, CAN / CSA, IP67 approved
Material	Plastic case
Dimensions	6 13/32" (162.5 mm) L x 1 11/16" (42.5 mm) W x 1 1/4" (32 mm) H
Additional	
Mean Time Between Failures	> 732 000 MIL-HDBK-217F (25 °C)
Packaging	0.4 Kg; 32 pcs / 13.8 Kg / .56 ft ³

NOTES

1. Constant current operation region is within 75% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design
2. Ripple and noise are measured at 20 MHz of bandwidth by using a 12" twisted pair-wire terminated with a .1uf and 47uf parallel capacitor
3. Tolerance: includes set up tolerance, line regulation, and load regulation
4. Length of set up time is measured at first cold start. Turning on / off the power supply may lead to an increase in the set up time
5. Derating may be needed under low input voltage. Please check the derating curve for more details
6. Protection Type: Shut down o / p voltage, re-power on to recover



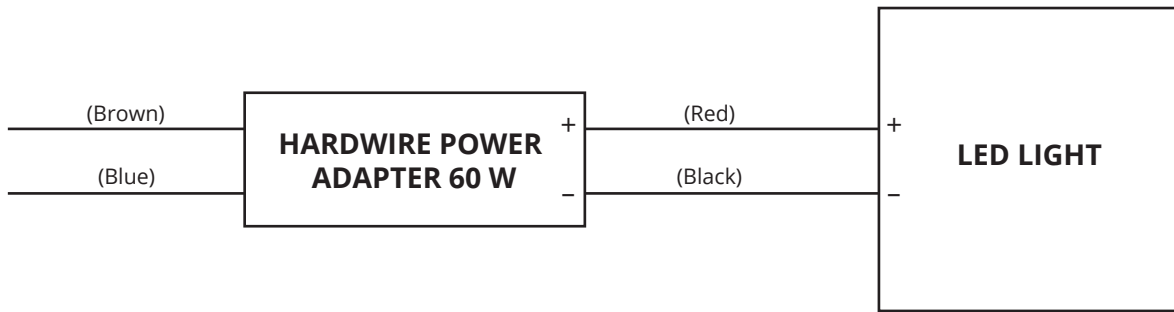
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NOTES

- All parameters not specially mentioned are measured at 230 VAC input, rated load and 25 °C of ambient temperature
- The power supply is considered a component which will be installed a final equipment. The final equipment must be re-confirmed to ensure it still meets EMC directives.
- Protection Type: Hiccup mode recovers automatically after fault condition is removed
- Recommended load: 90%
- Omnify strives to maintain tight control over specification factors. However, specifications are subject to change on rare occasion. These changes may not be reflected here

WIRING EXAMPLE



ORDER INFORMATION

Product #	Voltage	Wattage
951012	24-24V DC	060-24 W (Standard)

EXAMPLE

951012-24-060

The specification number immediately above can be deconstructed as follows:

- 24V 60W Hardwire Power Adaptor; Voltage-24V; Wattage-60W