

# Power Supplies

## TECHNICAL INFORMATION

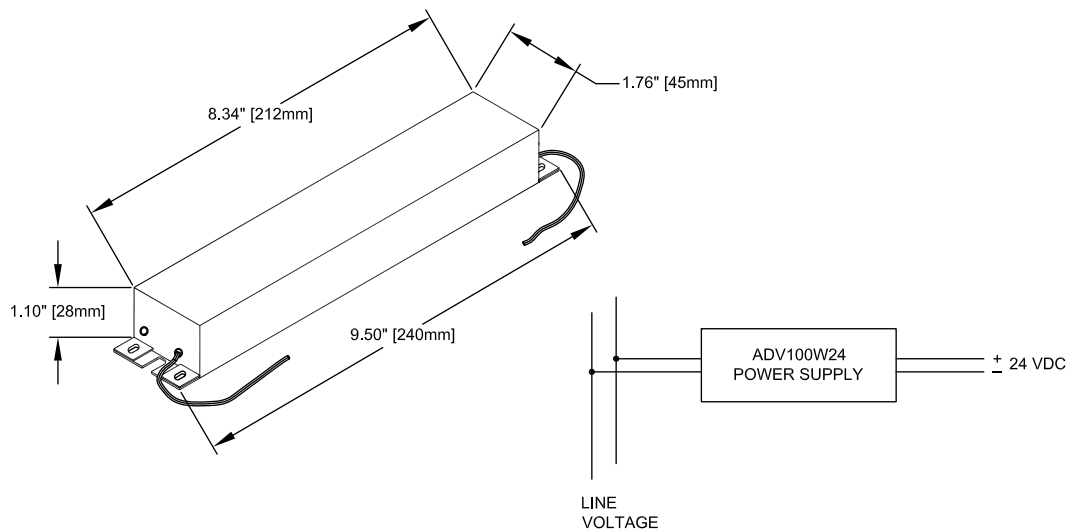
### Electronic Xitanium Power Supply

#### Features

- Input: 120-277 VAC Xitanium Multiple Voltage 50/60Hz
- Output: 24VDC 4.1A Max regulated inherently limited class 2 driver with inherent short-circuit protection
- Approvals: RU recognized for U.S. and Canada, CE, RoHS compliant
- Dimensions: 9 1/2" x 1 1/4" x 1 3/4" (242mm X 30mm X 43mm)
- Manufacturer's warranty of 5 years
- Additional electrical enclosure required (not included)

\*RU is a recognized component covered under UL's recognition service. Final acceptance of the component is dependent upon its installation. For more information about Recognized Components, visit UL's Website at <http://www.ul.com/about/glossary.html>. When installing any power supply it is important to abide by all local and national electrical codes.

Description	Input			Output			Case Temp Max (°C)	Weight (Grams)
	Volts (V)	Power Max (W)	Current Max (A)	Power Max (W)	Voltage Norm (V)	Current Max (A)		
100 Watt	120	117.0	0.98	100.0	24.0	4.1	90	635
	230		0.51					
	277		0.042					



## ORDERING INFORMATION

Order Number: ADV100W24V

Product Application

Plexineon &  
Hypnotica iS

Specification sheets are subject to change without notice. For the most recent version, please refer to [www.ilight-tech.com](http://www.ilight-tech.com).

## TECHNICAL INFORMATION

### Enclosure Guidelines for Electronic Xitanium Power Supply

#### Installation & Application Notes:

##### Section I – Physical Characteristics

- 1.1 LED Driver shall be installed inside an electrical enclosure
- 1.2 Wiring inside electrical enclosure shall comply with 600V/105°C rating or higher.

##### Section II – Performance

- 2.1 LED Driver is UL Class 2 power unit as per ULI1310. It is also listed in the UL Sign Accessory Manual (UL SAM).
- 2.2 LED Driver has Class A sound rating.
- 2.3 LED Driver has a minimum operating ambient temperature of -40°C.
- 2.4 LED Driver has a life expectancy of 50,000 hours at Tcase of equal to or less than 80°C.
- 2.5 LED Driver has a life expectancy of 100,000 hours at Tcase of equal to or less than 70°C.
- 2.6 LED Driver has a typical self rise of 30°C at maximum load in open air without heat sink.
- 2.7 LED Driver is certified by UL for use in a dry or damp location (Outdoor Type I).
- 2.8 LED Driver tolerates sustained open circuit and short circuit output conditions without damage.
- 2.9 LED Driver maximum allowable case temperature is 90°C – see product label for measurement location.
- 2.10 LED Driver reduces output power to LEDs if maximum allowable case temperature is exceeded.
- 2.11 LED Driver complies with FCC rules and regulations, as per Title 47 CFR Part 15 Non-Consumer (Class A).
- 2.12 LED Driver conforms to EN61558-1, EN 61558-2-17 and EN 60065.

For outdoor or damp/wet locations, the electrical enclosure must comply with NEMA-3R or UL-Outdoor rating

#### Installation Conditions

##### Section III – UL Conditions of Acceptability (File E220165)

In the end product, power supply spacing to other heat producing components shall be minimum 4 inches spacing to sidewalls, and minimum 2 inches spacing to top of enclosure and mounted not closer than 1 in. end to end or 4 in. side to side from adjacent LED power supplies.

The units were submitted and tested for a maximum manufacturer's recommended Tc point described in the table below. If adjacent LED power supplies are spaced closer than 1 in. end to end or 4 in. side to side, a temperature test shall be conducted in the end use product.