I. Installation - Waterproof Transformer

This power supply can be operated on a range of voltages with an input of 90 - 305V AC or 127 - 431V DC converted to 12V DC at 25 amps or 24V DC at 12.5 amps. This converter is specifically designed to be hardwired into building, boat or vehicle electrical supplies, allowing users to use standard AC power to operate equipment that requires low voltage. This power supply is waterproof, wet and damp area approved and suitable for indoor and outdoor applications.

I. Installation

1. Before commencing any installation or maintenance work, please disconnect the power supply from the utility. Ensure that it cannot be re-connected inadvertently.

2. Keep proper ventilation around the unit and do not stack any object on it. A 10-15 cm clearance must be kept when the adjacent device is a heat source.

3. Mounting orientations other than standard orientation or operate under high ambient temperature may increase the internal component temperature and will require a de-rating in output current. Please refer to the specification sheet to receive the optimum mounting position and information about the de-rating curve.

4. Current rating of an approved primary/secondary cable should be greater than or equal to that of the unit. Please refer to its specification.

5. The wire color will vary by country, please refer to the table for more information.

	North America	European Harmonized
Live and ACL	Black	Brown
Neutral and ACN	White	Blue
PE and FG (Class I only)	Green	Green/Yellow

A) Connect the FG (floating ground) wire (green or green/yellow) of the power supply to PE (protective earth) wire (green or green/yellow), this step can be skipped when the unit is marked Class II, ungrounded.

B) Connect the ACL wire (black or brown) of the power supply to Live (black or brown).

C) Connect the ACN wire (white or blue) of the power supply to Neutral (white or blue).

Note: Please check the label on your power supply unit for output voltage before attempting to install. Choices include -12V for 12V DC @ 25A or -24V for 24V DC @ 12.5A.

LARSON ELECTRONICS LLC · 9419 E US HWY 175 · KEMP, TX 75143
p: 1-800-369-6671 · intl: 903-498-3363 · f: 903-498-3364 · sales@larsonelectronics.com

II. Safety Warnings and Ratings

I. Warnings

Risk of electrical shock and energy hazard. All failure should be examined by a qualified technician. Please do NOT remove the case of the power supply by yourself.

Please do NOT install power supplies in places with high ambient temperature or close to a fire source. Please refer to the specifications about the maximum ambient temperature limitations.

Output current and output wattage must not exceed the rated values on the specifications.

The FG must be well connected to PE (protective Earth) if the unit equips with it.

II. Ratings/Features

IP67 Rated Waterproof
Overload, Short Circuit, Over Voltage and Over Temperature Protection
UL1012 Compliant
UL60950-1 Compliant
International Lighting Safety Standards Compliant
Suitable for LED Moving Signs
Suitable for Wet or Damp Locations

