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Wall Mount DC/DC Converter

Compact Isolated Power Supply

The RLH Wall Mount DC/DC converter is a compact isolated power supply designed to convert 130VDC power to regulated 48VDC power for a wide range of industrial equipment. These converters provide an isolated and regulated DC output from station batteries or other widely fluctuating DC sources. A range of input voltages are available. RLH DC/DC converters provide multiple outputs for powering for up to twelve (12) Fiber Link Cards or other industrial equipment.

Features include convenient 12 position screw-down terminals for connecting equipment, status LEDs for quick operational assessment, and low output ripple along with short circuit, overvoltage and overload protection.

Key Features

- Wall mountable
- Power Output status indicator
- Power terminals for up to 12 devices
- Wide operating temperature range
- Durable vented Thermoplastic housing with padlock hasp
- Made in USA

Key Specifications

Construction:	Thermoplastic molded
Dimensions:	8.5" (W) x 3" (D) x 10.2" (H), (216mm x 76mm x 259mm)
Weight:	0.59 kg/1.3 lbs.
Mounting Style:	Wall mount
Operating Temperature:	-20°C to +70°C (-4°F to 158°F)
Input/Output Isolation:	1500VDC

Ordering Information

Description	Input Voltage	Output Voltage	Part Number
50 Watt 130VDC 48VDC	130VDC	48VDC	8806-1276-01



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General Safety Practices

The equipment discussed in this document may require tools designed for the purpose being described. RLH recommends that service personnel be familiar with the correct handling and use of any installation equipment used, and follow all safety precautions including the use of protective personal equipment as required.

CAUTION - SEVERE SHOCK HAZZARD

- Never install during a lightning storm or where unsafe high voltages are present
- This equipment uses high DC voltages and current, do not touch terminals when power is applied
- Use caution when handling copper wiring and follow appropriate safety regulations

Installation

The power converter is intended to be wall mounted using the supplied hardware. Use a wall surface or backboard sufficiently strong enough to support the converter. This unit is not weatherproof, and must be mounted indoors or in a weather proof enclosure if used outdoors.

Prior to installation:

- Check for shipping damage
- Check the contents to ensure correct model and fiber type
- Have a clean, dry installation environment ready

Measure the voltage of the source power and ensure it is within the acceptable range to avoid damage when power is applied.

A 3/8" nut driver is required to open the housing cover.

Note: When installing into an environment with a circuit breaker before the converter, it must be rated at 1.5 times (minimum) the output current rating of the converter. For example, use a 25A circuit breaker for a 16A output converter ($1.5 \times 16 = 24$).

!!! Do not connect power to the converter at this point

Install Onto Wall Surface

Mount the power converter to a wall or panel surface using the mounting holes at the top and bottom of the housing.

Connect Equipment

Open the door and connect equipment to their respective + POS and – NEG DC OUTPUT terminals. The rubber grommet can be removed for this process. Merely create a hole through the rubber grommet and pass connecting wire through, then replace the grommet.

Note: Always make sure the power is removed before making connections to the output terminals.

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Installation (cont'd)

Connect Input Power

Turn OFF and lock out the circuit breaker at the source panel for incoming power. Ensure that power is removed from the source wiring prior to making any connections.

Note: Output power is energized when input power is supplied.

Connect the DC source power to the INPUT terminals at bottom of the internal power supply. The DC Data Sheet input is NOT POLARITY SENSITIVE, therefore it is not marked plus (+) or minus (-). The DC input voltage can be inserted into either DC input terminal. The rubber grommet can be removed for this process; merely create a hole for the rubber grommet and pass connecting wire through. Connect the wires to P1 and P2 and replace the grommet.

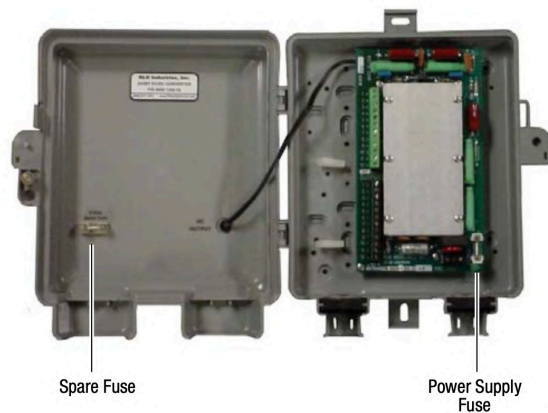
Apply Input Power

Double check all connections. Apply power to the input wiring by turning on the source power breaker back at the panel or mains switch.

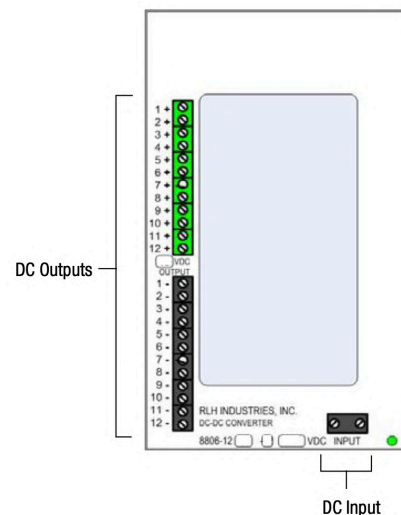
Once DC input power is applied, the output terminals are energized. The green 'DC INPUT' LED on the power supply will be ON. The yellow 'DC OUTPUT' LED on the outer housing door will be ON to indicate power on the output terminals.

Double check output power at the DC OUTPUT terminals with a multimeter. Close the housing and secure using the nut driver.

Power Supply Housing



Power Connections



DC Output LED

The Yellow DC Output LED will be ON when DC power is being output at the DC OUTPUT terminals.

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