

## Wall Mount DC/DC Converter

Isolated 12, 24, or 48V Output  
in a Wall Mount Configuration

### Description

The RLH Wall Mount DC/DC converter is a compact isolated power supply designed to convert 24, 48 or 130VDC power to regulated 12, 24 or 48VDC power for a wide range of industrial equipment. The wall mount housing is rugged thermoplastic with mounting tabs for easy installation.

Features include convenient 12 position screw-down terminals for connecting equipment, and status LEDs for quick functional assessment. Equipment power connections are made directly to the screw down terminals on the internal power connectors.

RLH wall mount power supplies have low output ripple along with short circuit, overvoltage and overload protection.



Wall Mount DC/DC Converter

### Contents

Description	1
Standard Features	1
General Safety Practices	2
Installation	2
Specifications	4
Ordering Information	4
Technical Support	5

### Standard Features

Input/output status indicators	Short circuit, overload, over voltage and over temp.protection
Durable, vented plastic wall mount housing with padlock hasp	100% full load burn-in test
12 screw down terminals accept up to 8AWG wiring	Wide operating temperature, cooling by free air convection

## General Safety Practices

The equipment discussed in this document may require tools designed for the activity 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 Hazard

- 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.

## Mounting Information

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.

## Installation

Prior to installation:

- Check for shipping damage
- Check the contents to ensure correct model and powering options
- 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.

### 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 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 through the rubber grommet and pass connecting wire through.
- Connect the wires to P1 to P2 and replace the grommet.

### Apply input power

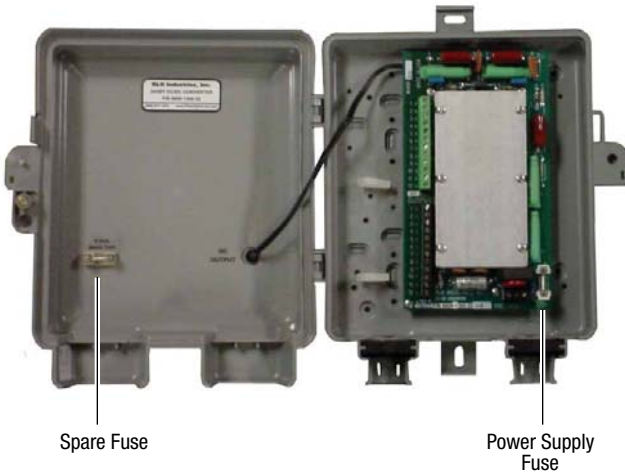
**Double check all connections.** Apply power to the input wiring by turning on the source power breaker back at the panel or mains switch.

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.

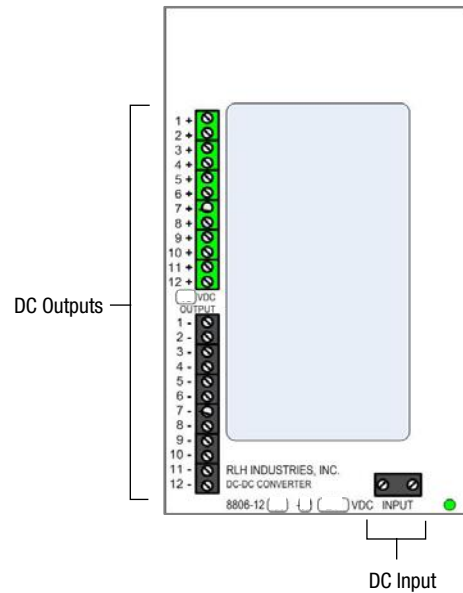
Double check output power at the DC OUTPUT terminals with a multimeter.

Close the housing and secure using the nut driver.

### Power Supply Housing



### Power Connections



### Power Supply Components

### DC Output LED

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

## Specifications

<b>DC OUTPUT</b>	See Ordering Information Table Below
<b>INPUT/OUTPUT ISOLATION</b>	1500VDC
<b>MAXIMUM CAPACITY</b>	12 RLH Fiber Optic Link Sub Cards
<b>OPERATING TEMPERATURE</b>	-20°C~ +70°C (-4°F ~ 158°F)
<b>DIMENSIONS</b>	(HxWxD) 10.2 in. x 8.5 in. x 3.0 in. (259mm x 216mm x 76mm)
<b>WEIGHT</b>	1.3 lbs. (0.59 Kg)

## Ordering Information

Voltage Range	Output	Max. Output Amps	Part Number
24VDC (21 ~ 32V)	12VDC	4.4A	<b>8806-1255-01</b>
	24VDC	2.2A	<b>8806-1256-01</b>
	48VDC	1.1A	<b>8806-1266-02</b>
48VDC (42 ~ 60VDC)	12VDC	4.4A	<b>8806-1269-02</b>
	24VDC	2.2A	<b>8806-1278-02</b>
	48VDC	1.1A	<b>8806-1267-01</b>
130VDC (100 ~ 180VDC)	12VDC	4.4A	<b>8806-1259-01</b>
	24VDC	2.2A	<b>8806-1275-02</b>
	48VDC	1.1A	<b>8806-1276-01</b>

## Technical Support

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<b>Normal technical support:</b> (Mon - Fri 6am - 6pm PST)	(714) 532-1672 Toll Free 800-877-1672 Toll Free 866-DO-FIBER
<b>Email:</b>	support@fiberopticlink.com
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## Contact Information

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Please contact your RLH sales representative for pricing and delivery information.

Specifications subject to change without notice.