

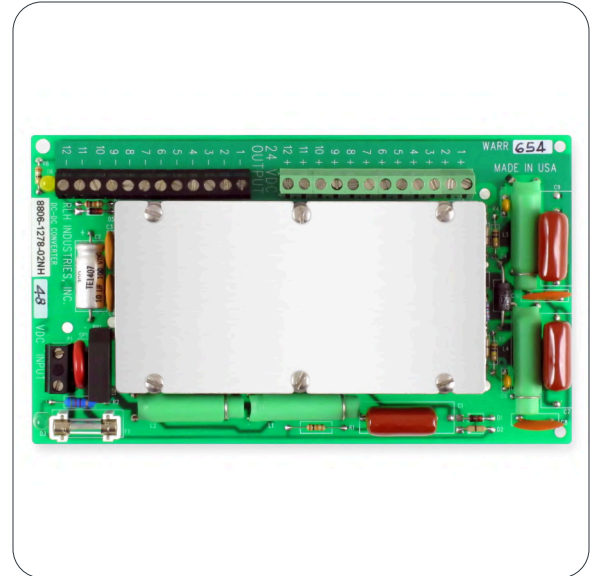
USER GUIDE

DC/DC Converter Card

Compact RLH DC/DC Converter Card

The RLH DC/DC Converter card provides an isolated 48VDC output designed to power up to 12 Fiber Optic Link cards. Engineered for industrial telecom applications, this converter provides an isolated and regulated DC output from station batteries or other widely fluctuating DC sources. The RLH DC/DC Converter card is designed to fit into any RLH Fiber Optic Link card housing or shelf, and can be combined with additional converters for a high-density DC power solution.

The RLH DC/DC rack mount converters are fuse protected and have status indicators mounted on the card.



DC/DC Converter Card

Key Features

- High Quality DC/DC converter with isolated and regulated output
- Fits all RLH 4RU card housings
- Convenient status LEDs
- Power up to 12 RLH Fiber Link Cards
- Combine for Redundancy
- Wide Operating Temperature -20° to +70°C Rating
- Made in USA

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.

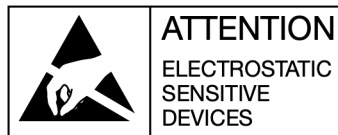
CAUTION - SEVERE SHOCK HAZZARD

- Never install during a lightning storm or where unsafe high voltages are present
- Use caution when handling copper wiring and follow appropriate safety regulations

General Safety Practices (cont'd)

Special Handling Requirements

Be careful when handling electronic components



- This product contains static sensitive components
- Handle the cards at their edges only
- Follow proper electrostatic discharge procedures

This card utilizes circuitry that can be damaged by static electricity. When transporting the card, carry it in an ESD safe container such as the antistatic bag provided with the card. Before handling cards, discharge yourself of static electricity by physical bodily contact with earth ground. When handling cards, hold by outer edges and avoid touching circuitry. Failure to follow ESD precautions may cause serious damage to the card and prevent proper operation.

WARNING

The intra-building port(s) of the equipment or subassembly is suitable for connection to intrabuilding or unexposed wiring or cabling only. The intra-building port(s) of the equipment **MUST NOT** be metalically connected to interfaces that connect to the OSP or its wiring. These interfaces are designed for use as intra-building interfaces only (Type 4 ports as described in GR-1089-CORE, Issue 4) and require isolation from the exposed OSP cabling. The addition of Primary Protectors is not sufficient protection in order to connect these interfaces metalically to OSP wiring.

Installation

Prior to installation:

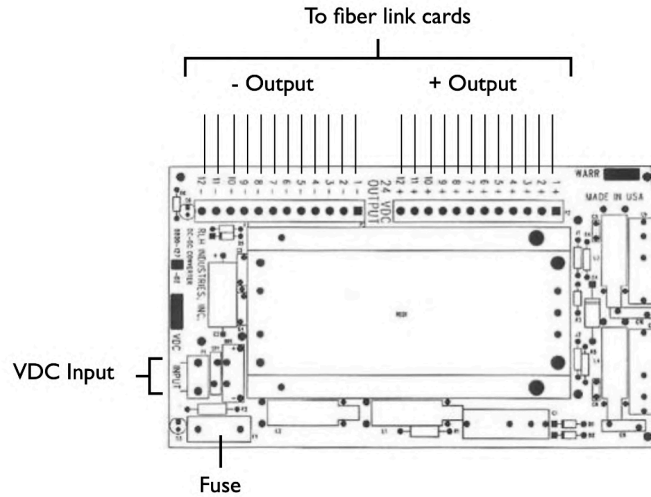
- Check for shipping damage
- Check the contents to ensure correct model and capacity
- Have a clean, dry installation environment ready

Required for installation:

- RLH card housing
- Multimeter

Installation (cont'd)

Connect the Fiber Link Cards to Green positive (+) and Black negative (-) screw down terminals on the converter.

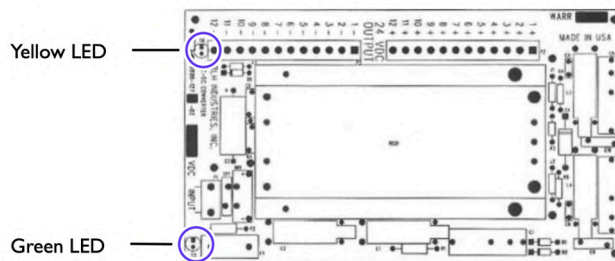


Connection Diagram

Install converter card into RDLCHouctpaurt.d housing. Connect the DC source to the INPUT terminal located at bottom right of the converter card. The DC input is not polarity sensitive, therefore it is not marked plus (+) or minus (-).

Note: DC OUTPUT connections are energized when DC INTPUT is connected.

- The green DC INPUT LED will be ON when input power is applied
- The yellow DC OUTPUT LED will be ON to indicate the output power.



LED Diagram

Troubleshooting

If trouble is encountered, verify all installer connections, signal and voltage levels. If trouble persists, replace the unit and retest. If technical assistance is required, contact RLH Industries, Inc. Technical support department.

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www.fiber opticlink.com

Key Specifications

Maximum Output Power:	50 Watts
LED Indicators:	Green: Input Voltage Yellow: Output Voltage
Input-Output Isolation:	2500V
Maximum Capacity:	12 Outputs (for up to 12 fiber link cards)
Dimensions:	7" x 4" x 1" Standard RLH Fiber Link Card Form Factor
Operation Temperature:	-20°C to +70°C (-4°F to +158°F)
Cooling:	Convection

Ordering Information

Description	Part Number
130/48V DC/DC Converter Card	8806-1276-02NH

Contact

By Mail: Att: Sales
RLH Industries, Inc.
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Orange, CA 92867

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