

RLH AC/DC 2RU Power Supply

HIGH CAPACITY ISOLATED POWER

Description

The RLH AC/DC 2RU Power Supplies are ideal for industrial telecom applications where uninterruptible power is necessary. The power supply operates from a standard AC input and transforms to a regulated DC output and has LED status indicators for each.

It is available as a power supply only, or with backup batteries that function as a UPS, supplying temporary backup power in the event of an outage. Batteries are sealed gel style, and industrial grade and are covered by a 5 year battery warranty.

The system is designed to power up to twelve (12) Fiber Link cards. Internal backup batteries offer a minimum of 3 hours of standby power. The power supply is an EIA 19/23 inch 2RU rack mountable unit, with both front or telco center style rack ear mounting.

Key Features

- Applications for critical, high voltage, remote or un-manned locations that must remain operating 24/7/365.
- Heavy duty powder coated steel enclosure
- Powers up to 12 Fiber Link cards
- Universal AC input / full range, active surge current limiting
- LED status indicators for AC input and DC output
- Built-in AC fail alarm for remote sensing
- EIA 19in and 23in 2RU rack mount ears
- Commercial grade terminal blocks
- Optional built-in battery back up for uninterrupted service



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Rear view of power and equipment terminals

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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 AC and DC voltages and current, do not touch terminals when power is applied.
- Use caution when handling copper wiring and follow appropriate safety regulations.
- An external Surge Protective Device (SPD) is not required.

Mounting Information

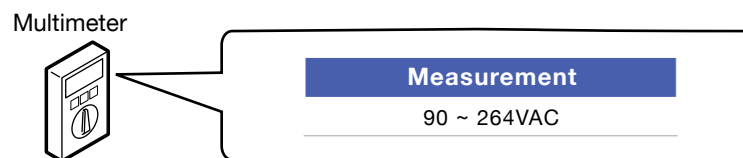
The power supply is intended to be shelf or rack mounted using the supplied rack hardware. Use a rack sufficiently strong enough to support converter. This unit is not weatherproof, and must be mounted indoors or in a weather proof enclosure if used outdoors.

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 AC voltage of the source power. Ensure the power is within range of the converter being used to avoid damage when power is applied.



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 70A circuit breaker for a 42A output converter ($1.5 \times 42 = 63$, rounded up to more commonly available 70A size breaker).

Do not connect AC power to the converter at this point.

Install into equipment rack

Mount the power converter in to a 19/23 inch equipment rack using the mounting brackets provided.

Connect equipment

Set the front switch to **OFF** to prevent the output terminals from accidentally becoming energized. Connect the Fiber Link cards or other equipment to their respective + POS and – NEG DC OUTPUT terminals.

Note: Always make sure the front switch is OFF before making connections to the output terminals.

Connect input terminals

Make sure front switch is **OFF** and fuse is in place. Connect power to the AC receptacle located at the back left of the power supply.

Connect AC fail alarm

To monitor the status of the AC input power source connect monitoring equipment to the AC Fail Alarm terminal. The system will send a signal when input power source is lost.



Rear panel connections

Apply input power

Double check all connections. When ready turn the switch on the front to the **ON** position.

The output terminals are now energized. The blue **AC INPUT** LED will come ON, indicating power at the input terminals. The yellow **DC OUTPUT** LED will come ON, indicating isolated power is being output. Double check output power at the DC OUTPUT terminals with a multimeter.

Troubleshooting

Troubleshooting the AC/DC power supply always begins with the observation of the status LEDs. The blue LED indicates AC INPUT, and the yellow LED indicates DC OUTPUT on (+) and (-) terminals. Make sure all connections are in correctly in place. Contact RLH Tech support after checking connections.

Ordering Information

AC Input	DC Output	Max. Output	Battery Pack	Part Number
100 ~240VAC	24V	2.8A	N/A	8806 - 1418 - 01NB
	24V	2.8A	7.5Ah	8806 - 1418 - 01
	48V	1.4A	N/A	8806 - 1419 - 01NB
	48V	1.4A	4.5Ah	8806 - 1419 - 01

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

General Specifications

Specifications		24VDC units	48VDC units
Input	Voltage Range	100 ~ 240VAC	
	Fuse Rating	3A	
Output	DC Voltage	24V	48V
	Max Current	2.8A	1.4A
	Max Capacity	12 outputs (75 Watts total)	
Battery Pack	Capacity	7.2Ah	4.5Ah
	Fuse Rating	6A	3A
LED's	AC Input	Blue	ON Input power is detected
			OFF No input power detected
	DC Output	Yellow	ON Output power detected
			OFF No output power detected
Construction	Material	Powder coated steel housing	
	Dimensions	3.5" x 17" x 11.5" without mounting ears	
	Mounting	19/23" rack mount	
Environment	Operating Temp.	-25°C to 60°C (-25°F - 140°C)	

Technical Support

Normal technical support: (Mon - Fri 6am - 6pm PST)	(714) 532-1672 Toll Free 800-877-1672 Toll Free 866-DO-FIBER
Email:	support@fiberopticlink.com
24/7 technical support: (Outside normal business hours)	Toll Free 1-855-RLH-24X7 Toll Free 1-855-754-2497

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