

RLH DC/DC Dual Output Power Supply DIN/Wall Mount

130VDC INPUT TO REGULATED
48VDC & 12VDC OUTPUT

Overview

The RLH 130V Dual Output DC/DC DIN rail mount power supply is a compact power supply designed to convert 130VDC power (43~160VDC) to regulated 48VDC and 12VDC output to power a wide range of industrial equipment.

Each internal regulated power supply section is separate and independent of the other power section, allowing for maximum efficiency and operation.

The power supply may be DIN rail or wall-mounted, and includes a power indicator for each output section so that performance and operation may be quickly assessed. It has low output ripple along with short circuit, over-voltage and overload protection, fan-less convection cooled design, and extended operating temperature range with high efficiency.

This rugged power supply features a tough aluminum alloy frame with powder coated galvanized steel housing for superior corrosion resistance.



RLH-D-DCDC-4812H-1 Dual Output Power Supply

Standard Features

130VDC input with 48VDC & 12VDC output terminals

Short circuit, overload, over voltage and over temperature protection

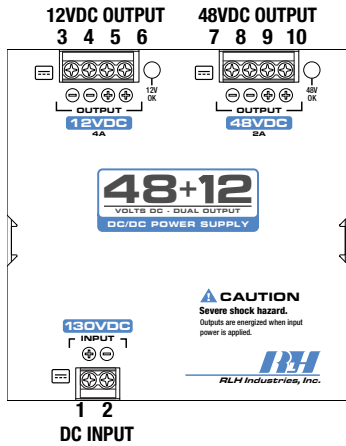
Cooling by free air convection

May be installed on 35mm DIN rail

Individual LED power indicators for each output

Convenient screw down terminals accept up to 8AWG wiring

Input / Output Terminals



Note: DC output is positive voltage as marked.
For negative DC voltage (-12VDC or -48VDC), reverse wiring polarity when connecting to the DC output terminals.

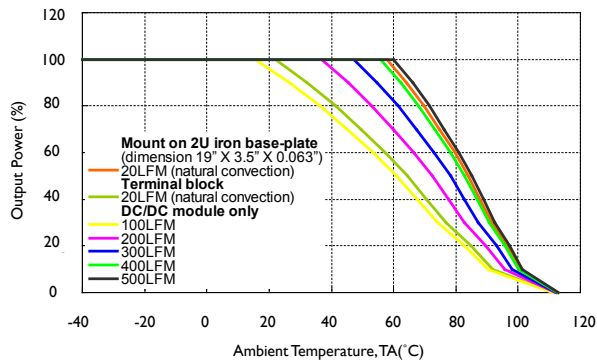
DC TERMINAL (INPUT)

No.	Description
1	130V DC +
2	130V DC -

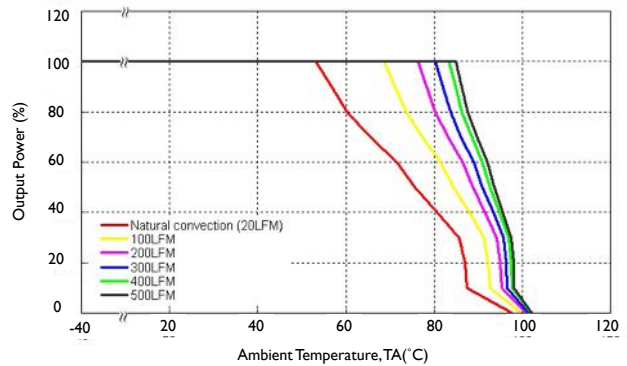
DC TERMINAL (OUTPUT)

No.	Description
3, 4	DC Output -12V
5, 6	DC Output +12V
7, 8	DC Output -48V
9, 10	DC Output +48V

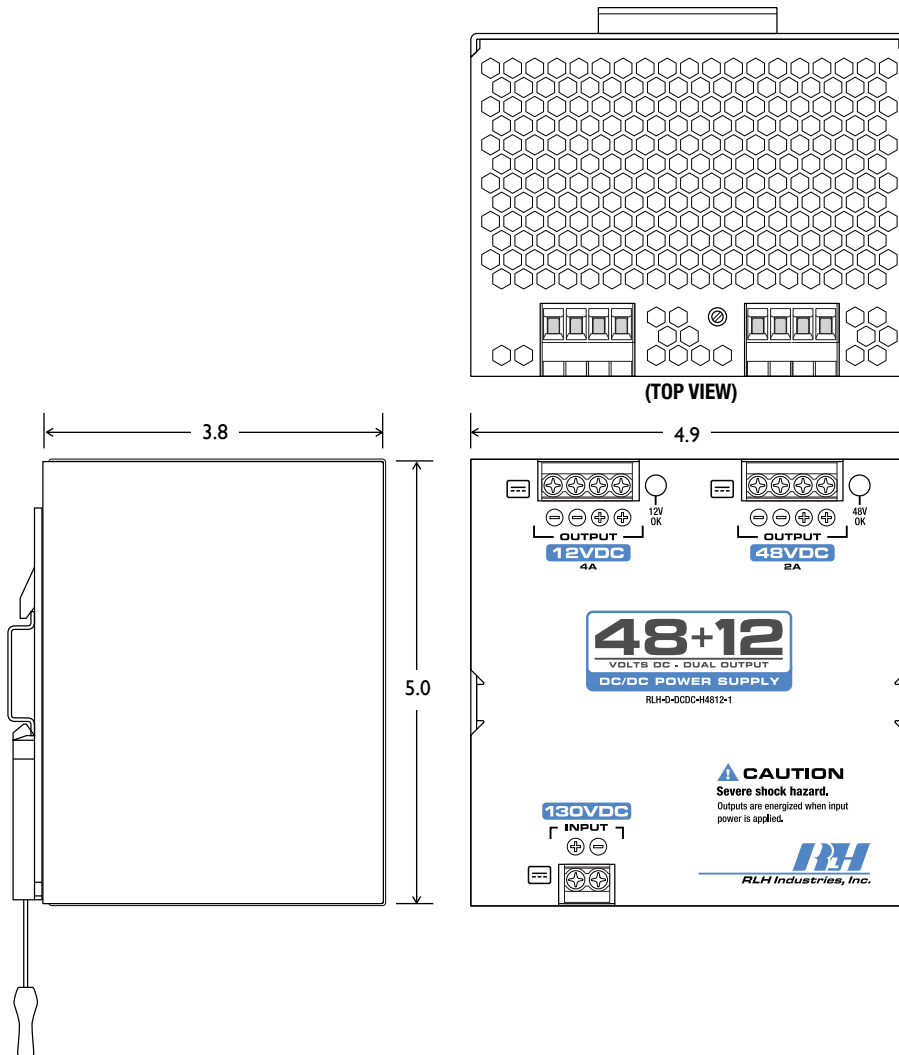
48V Output Derating Curve



12V Output Derating Curve



Dimensional Information



Ordering Information

Part Number	Input	Output
RLH-D-DCDC-4812H-1	130VDC	48VDC, 2.1A / 12VDC, 4.1A

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

Specifications

INPUT	VOLTAGE RANGE	Min	72VDC
		Max	144VDC
		Typical	110VDC
	UNDERVOLTAGE LOCKOUT	Power Down	71VDC or lower
OUTPUT	SURGE VOLTAGE	Max	160VDC (100 msec. max.)
	VOLTAGE OUTPUT	Dual Outputs	48VDC @ 2.1A 12VDC @ 4.1A
		VOLTAGE ACCURACY	±1.5% Max.
	TRANSIENT RESPONSE	400µs typ. (25% Step Load Change)	
	RIPPLE & NOISE, 20MHz BW	300mV pk-pk max.	
	TEMPERATURE COEFFICIENT	±0.02% / °C	
	SHORT CIRCUIT PROTECTION	Continuous, automatic recovery	
	LINE REGULATION	±0.2% max. (Measured from low line to high line)	
		±0.5% max. (Measured from no load to full load)	
	OVERVOLTAGE PROTECTION	115~130% of Vout nom	
	START UP TIME	25ms typ. (nominal Vin and constant resistive load)	
	CAPACITIVE LOAD	12VDC output	5250µf
		48VDC output	790µf
GENERAL	EFFICIENCY	85%	
	ISOLATION VOLTAGE	Input/Output	1500VDC
		Input/Case	1500VDC
	ISOLATION RESISTANCE	Input/Output	100M ohm min.
	SWITCHING FREQUENCY	300KHz typ.	
DERATING	Refer to derating curve		
ENVIRONMENTAL	OPERATING TEMP.	-40°C to +70°C	
	STORAGE TEMP	-55°C to +125°C	
	HUMIDITY	95% RH max., non-condensing	
	MTBF	75Khrs MIL-HD-217F	
PHYSICAL	DIMENSIONS	H 5.0 in. x W 4.7 in. x D 3.7 in. (127mm x 119mm x 94mm)	
	HOUSING	Aluminum alloy, powder coated galvanized steel	
	MOUNTING	35mm DIN rail	