

RLH Industries, Inc.

fiberopticlink.com

PRODUCT DATA SHEET

DS-073 2025-0714

90W AC/DC 24V+12V Dual Output Power Supply

Compact, DIN or Wall mountable, with Universal Input

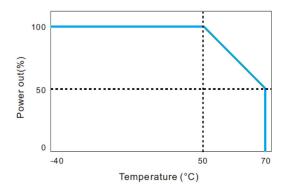
RLH Industries power supplies are commonly used in communications and industrial control environments. The dual output can provide reliable power to a wide range of industrial equipment.

The RLH 90 Watt AC/DC 24V +12V Dual DC Output Power Supply features a universal input of 100-240VAC or 120-370VDC. Designed for industrial use and operates over a wide temperature range. Includes a powder coated steel housing that can be DIN or wall mounted.

Features

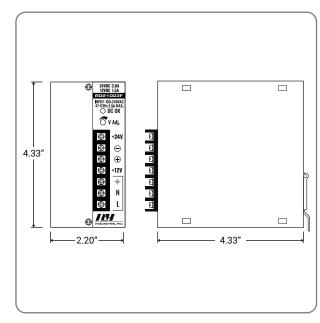
- Dual Independent 24V and 12V DC Outputs
- Universal Input Range 100-240VAC/120-370VDC
- E24VDC and 48VDC Output models available
- Short circuit, overload, and over voltage protection
- Wide operating temperature range of -40°C to 70°C (-40° to 158°F)
- DIN Rail or Wall Mountable
- Cooling by free air convection
- 100% full load tested

Derating Curve





AC/DC 24V+12V Switching 90 Watt Power Supply



Dimensions

RD21003F



General Specifications

Switching Frequency	85kHz	
Isolation Voltage	Input- Output:	3000VAC /4242VDC
	Input-FG:	1500VAC/2121VDC
	Output-FG:	500VAC/ 710VDC
Isolation Resistance	100MΩ when Input-Output @500VDC	
Temperature	Operating:	-40°C~50°C (-40°F~122°F) Full Load , 50°C~70°C (122°F~158°F) derating curve applies
	Storage:	-40°C`+85°C (-40°F`185°F)
Derating	2.5% per degree from 50°C to 70°C	
Temperature Coefficient	±0.04% of output voltage per °C	
Relative Humidity	5%~95% RH, Non-condensing	
Attitude During Operation	2000m	
Installation Position	Vertical	
Vibration	Random Vibration, 10~500Hz. 3 axis	
EMC Standards	EN55011 Class B, EN55022 Class B, EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8 (Magnetic Field), EN61000-4-11 (EMC)	
Safety	CE, UL Listed, RoHS	
MTBF	60,000 hrs	Min. Per MIL-HDBK-217F, 25°C GB
Warranty	3 Years - Visit www.fiberopticlink.com for warranty details	

Protection Specifications

Input Fuse:	3.15A/250V	
Input Surge Load Protection:	Varistor, IEC6100-4-5	
Degree of Protection:	IP20	
Short Circuit Protection:	Autorecovery	
Over Voltage Protection:	Autorecovery	
Rated Over Load Protection:	160~200%	
Overload Protection:	Power limited	

Input Specifications

Input Voltage	100~240VAC/120~370VDC	
Input Frequency	47~63Hz	
Inrush Current (Cold Start)	22A/115VAC	
	44A/230VAC	
Rated Input Current	2.5A Max., Vi=100~240VAC	
Leakage Current	Input-output 0.25mA, Inout-FG 3.5mA, Vi=250VAC	



Output Specifications

Output Voltage Accuracy	±1%			
Minimum Load	0%			
Line Regulation	±1%, measuring from low line to high line rated load			
Load Regulation	±2%, measuring from 20% to 100% of rated load 230VAC input			
Voltage Trim Range	±10%			
Rated Continuous Loading	3.0A @ 24VDC (72 Watts)			
	1.5A @ 12VDC (18 Watts)			
Hold Up Time	30mS Min., Full load @ 230VAC.			
Turn On Time	1300mS			
Rise Time	13mS			
Fall Time	25mS			
Transient Response	Recovery Time: 2mS, Load change 50% to 100%			
	Voltage Deviation: 5%, Load change 50% to 100%			
Efficiency	80%			
Ripple and Noise	24V: 240mVp-p			
	12V: 120mVp-p			
	*Note: Measured by using 0.1µF metallized capacitor and 47µF electrolytic capacitor in parallel at rated load and 230VAC input			

Ordering Information

Description	Part Number
90W AC/DC Dual Output Power, 24V/3.0A + 12V/1.5A, DIN or Wall Mountable	RD21003F

Contact

By Mail:	ATTN: Sales	
	RLH Industries, In 936 N. Main Stree Orange, CA 9286	et
By Phone:	Local	714-532-1672
Sales/Service	Toll Free	800-877-1672
By Email:	info@fiberopticlink.com	
By Fax:	714-532-1885	

Support

By Email:	support@fiberopticlink.com	
By Phone:	Toll Free 855-754-2497	