



RLH Industries, Inc.

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PRODUCT
DATA SHEET

DS-206 2025-0714

Industrial AC/DC + DC/DC Switching 150 Watt Power Supply

RD1150-XXF

Compact, DIN or Wall mountable, with Universal Input

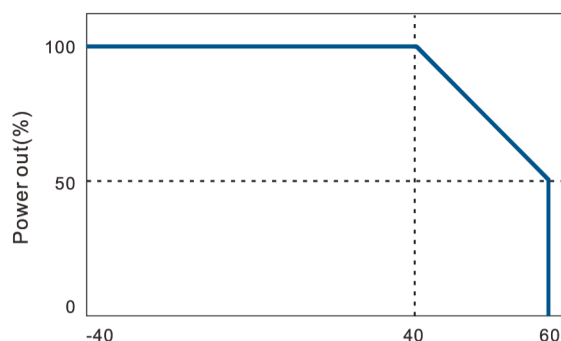
The 150 Watt compact industrial switching power supply series features a universal input of 100-240VAC or 120-370VDC. Designed for industrial use and is UL Listed, RoHS and CE compliant and operates over a wide temperature range. Includes a powder coated steel housing that can be DIN or wall mounted.

When used in combination with the optional battery charge controllers and battery packs, these power supplies make a compact and reliable UPS system.

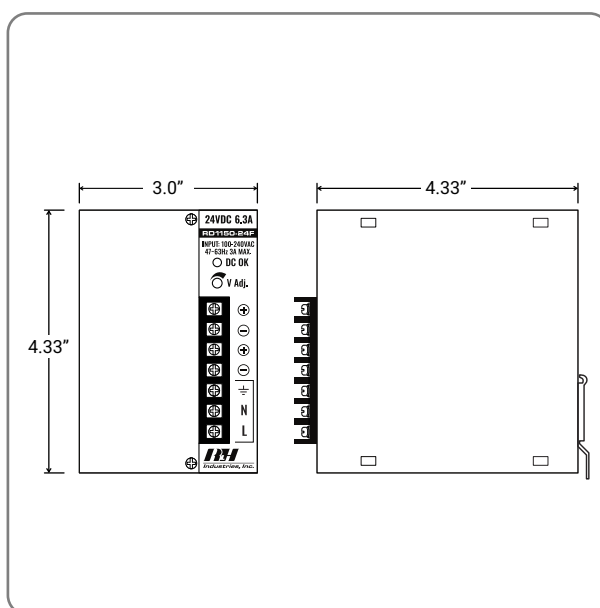
Features

- Input Range 100-240VAC/120-370VDC
- 24VDC and 48VDC Output models available
- Short circuit, overload, and over voltage protection
- Wide operating temperature range of -40°C to 60°C (-40° to 140°F)
- Low ripple and noise
- Easily accessible output trim adjustment $\pm 10\%$
- Cooling by free air convection
- Designed for 35mm DIN rail mounting or wall
- LED power indicator
- Convenient screw down terminals
- 100% full load tested

Derating Curve



24VDC & 48VDC Switching 150 Watt Power Supply



Dimensions





General Specifications

Switching Frequency	85kHz
Isolation Voltage	Input-Output: 3000VAC /4242VDC
	Input-FG: 1500VAC/2121VDC
	Output-FG: 500VAC/ 710VDC
Isolation Resistance	100M Ω when Input-Output @500VDC
Temperature	Operating: -40°C~40°C (-40°F~104°F) Full Load, 40°C~60°C (104°F~140°F) derating curve applies
	Storage: -40°C to +85°C (-40°F to 185°F)
Derating	2.5% per degree from 40°C to 60°C
Temperature Coefficient	$\pm 0.04\%$ 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	3.5A Max., $V_i=100\sim 240\text{VAC}$
Leakage Current	Input-output 0.25mA, $I_{\text{inout-FG}}$ 3.5mA, $V_i=250\text{VAC}$



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	6.3A@24VDC, 3.2A@48VDC
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	RD1150-24FS: 82%
	RD1150-48FS: 83%
Ripple and Noise	RD1150-24FS: 150mVp-p
	RD1150-48FS: 250mVp-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
Industrial AC/DC + DC/DC Switching Power Supply, 24 Volts, 6.3 Amps, 150 Watts	RD1150-24FS
Industrial AC/DC + DC/DC Switching Power Supply, 48 Volts, 3.2 Amps, 150 Watts	RD1150-48FS

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