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DS-205 2025-0708

Industrial AC/DC + DC/DC Switching 48 Watt Power Supply

RD1048-XXFS

Compact, DIN or Wall mountable, with Universal Input

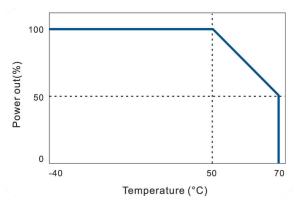
The 48 Watt compact industrial switching power supply series features a universal input of 100-240VAC or 120-370VDC. Offers a high power density in a small foot print. Designed for industrial use and is UL Listed, RoHS and CE compliant and operates over a wide temperature range.

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

Features

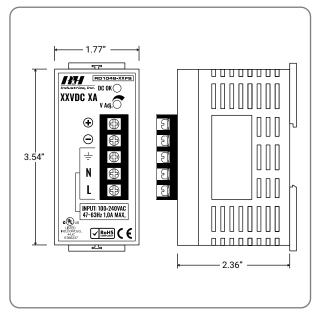
- Input Range 100-240VAC/120-370VDC
- E24VDC and 48VDC Output models available
- Short circuit, overload, and over voltage protection
- Wide operating temperature range of -40°C to 70°C (-40° to 158°F)
- Low ripple and noise
- Easily accessible output trim adjustment ±10%
- · Cooling by free air convection
- Designed for 35mm DIN rail mounting or wall
- LED power indicator
- · Convenient screw down terminals
- 100% full load tested

Derating Curve





24VDC & 48VDC Switching 48 Watt Power Supply



Dimensions



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General Specifications

1 Gigabit SFP Slot, Accepts MSA compliant 1.25Gbps SFPs (Sold separately)		
Input-Output:	3000VAC /4242VDC	
Input-FG:	1500VAC/2121VDC	
Output-FG:	500VAC/ 710VDC	
100MΩ when Input-Output @500VDC		
Operating:	-40°C~50°C (-40°F to 122°F) Full Load , 50°C to 70°C (122°F to 158°F) derating curve applies	
Storage:	-40°C to +85°C (-40°F to 185°F)	
2.5% per degree from 50°C to 70°C		
±0.04% of output voltage per °C		
5%~95% RH, Non-condensing		
2000m		
Vertical		
Random Vibration, 10~500Hz. 3 axis		
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)		
CE, UL Listed, RoHS		
100,000 hrs	Min. Per MIL-HDBK-217F, 25°C GB	
3 Years	Visit www.fiberopticlink.com for warranty details	
	Input-Output: Input-FG: Output-FG: 100MΩ when In Operating: Storage: 2.5% per degree ±0.04% of output- 5%~95% RH, Noutput- 2000m Vertical Random Vibration EN55011 Classes 4-5 (Surge), EN CE, UL Listed, 100,000 hrs	

Protection Specifications

Input Fuse:	2A/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:	150~250%
Overload Protection:	Power limited

Input Specifications

Input Voltage	100~240VAC/120~370VDC
Input Frequency	47~63Hz
Inrush Current	11A/115VAC
Cold Start	22A/230VAC
Isolation Resistance	100MΩ when Input-Output @500VDC
Rated Input Current	1A Max., Vi=100~240VAC
Leakage Current	Input-output 0.25mA, Inout-FG 3.5mA, Vi=250VAC



Output Specifications

±1%		
0%		
±1%, measuring from low line to high line rated load		
±1%, measuring from 20% to 100% of rated load 230VAC input		
±10%(Min.)		
2A @ 24VDC, 1A @ 48VDC		
30mS Min., Full load @ 230VAC.		
300mS		
10mS		
35mS		
Recovery Time:	2mS, Load change 50% to 100%	
Voltage Deviation:	5%, Load change 50% to 100%	
83%		
RD1048-24FS:	150mVp-p	
RD1048-48FS:	250mVp-p	
*Note: Measured by usir	ng 0.1µF metallized capacitor and 47µF electrolytic capacitor in parallel at rated load and 230VAC input	
	0% ±1%, measuring from ±1%, measuring from ±10% (Min.) 2A @ 24VDC, 1A @ 4 30mS Min., Full load 300mS 10mS 35mS Recovery Time: Voltage Deviation: 83% RD1048-24FS: RD1048-48FS:	

Ordering Information

Description	Part Number
Industrial AC/DC + DC/DC Switching Power Supply, 24 Volts, 2 Amps, 48 Watts	RD1048-24FS
Industrial AC/DC + DC/DC Switching Power Supply, 48 Volts, 1 Amp, 48 Watts	RD1048-48FS

Contact

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