RTG480W

480W/48V Industrial DIN Rail Power Supply (RTG480-48)

480W Industrial Power Supply



Power Input: AC 90~264V
Support production for short circuit/over
current/over voltage
Wide operation temperature range:-40C~70C
100% full load aging test
High efficiency, long life time and high
reliability
Meet EMC Standard
Support OEM/ODM services
CE FCC ROHS CCC Certificate

Application

- Industrial Control System
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus

Description

RTG480-48 is one economical slim 480W industrial DIN Rail power supply series, adapting to be installed on TS-35/7.5 or TS-35/15 mounting rails. The entire series adopts the full range AC input from 90VAC to 264VAC and conforms to EN61000-3-2, the norm the European Union regulates for harmonic current.

RTG480-48 is designed with a metal shell, which is easy to increase the heat dissipation of the machine. The working efficiency is as high as 90%. The product can work in -40C to 70Cambient temperature under the condition of air circulation. It has a constant current mode overload protection function and is suitable for various Inductive or capacitive load applications, complete protection functions and compliance with industrial control equipment certifications, making RTG480-48 a very competitive power solution for industrial applications.

Technical Specification

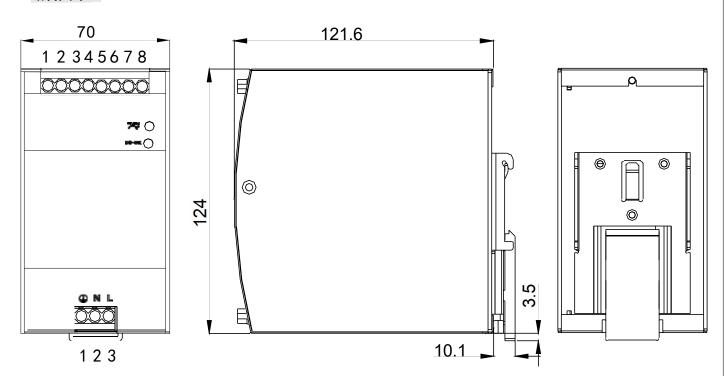
Model	RTG480-48			
	Group of Output	1		
	DC Voltage	DC 48V		
	Default Output Voltage	48.00-48.2V (VIN: 220VAC / LOAD: 0A)		
	Output Rated Current	10A		
	Output Current Range	0-10A		
	Output Rated Power	720W		
	Total Peak Output Power	Up to 720W(Sustainable time <u>10</u> S/220VAC)		
	Peak Output Current	15A(Sustainable time <u>10</u> S/220VAC)		
		Peak - Peak ≤100mV (Test Method: The terminal shall be in parallel with		
	Ripple noise	capacitance of 0. 1uF and 47uF, testing at 20MHz)		
Output	Output Regulation	47~56V		
	Range			
	Stabilized Voltage Precision	± 1% (@ 90V-264Vac input, 100% load)		
	Line Regulation	±1% (@ 90-264Vac input, 100% load)		
	Load Regulation	± 1% (@ 90-264Vac input, 0- 100% load)		
	Output Start Time	< 2S @ nominal input (100% load)		
	Output Hold Time	> 20ms @ 115Vac,		
	Output Hold Time	> 115 ms @ 230Vac (100% load)		
	Voltage Overshoot	≤5%		
	Input Voltage Range	90~264VAC		
	Input Rated Voltage Range	100~240VAC		
	Frequency Range	47~63Hz		
	Rated Frequency	50/60Hz		
	Starting Voltage	90Vac		
Input	Efficiency	> 87.0% @ 115Vac, > 92.0% @ 230Vac		
	Input Current @25C	< 8.80A @ 115Vac, < 4.40A @ 230Vac		
	Inrush Starting Current @ 25 C	< 35A @ 115Vac & 230Vac		
	Dower Factor	> 0.99 @ 115Vac,		
	Power Factor	> 0.93 @ 230Vac		

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		Over power	576~720W Swing machine (Testing method: Increase the output current until enabling the protection. Protection mode:Swing machine, Self-recovery after over-power released.)
Protection	Output	Over voltage	57~70V Swing machine (Short circuit the Pin1-2 of U8, swing machine. Output recovery to normal after removing the short circuit) Note: Do not use external voltage.
		Over current	12~15A Swing machine (Testing method: Increase the output current until enabling the protection. Protection mode:Swing machine, Self-recovery after over-current released.)
		Short circuit	It achieves the long-term short circuit by connecting a sufficient cross-sectional area copper cable (Length at 15cm±5cm) with power output port. Self-recovery to normal after removing the short circuit.
	Operation Temperature and Humidity		-40C~70C; 20%~95%RH
	Storage Temperature and Humidity		40C~85C; 10%~95%RH non-condensing
Operation	Temperatur	e Coefficient	±0.03%/C (0~50C)
Operation Environment	Libration		Frequency range: 10 ~ 500Hz, Acceleration: 2G, Each sweep cycle 10min. Six sweeps along the X, Y, and Z axis
	Surge		Acceleration: 20G, Duration time: 11mS, Three shocks along X, Y and Z axis
	Altitude		2000m
	Security Standard		GB4943/EN60950 ■ Reference □ Certification
	Dielectric Strength		Input—Output:3KVac/10mA; InputCase:1.5KVac/10mA; OutputCase:0.5KVDC/ 10mA Time for each testing is 1min.
Safety and EMC	Grounding Test		Test Condition: 32A/2min; Ground bond: < 0.1 ohms.
Standard @ 25 C	Leakage Current @ 25 C		Input to GND ≤3.5mA; Input to output ≤0.25mA (Input 264Vac, 63Hz)
	Insulation Resistance		Input—Output: 10M ohms;
	EMI	Conducted Interference	EN55022, EN55024, FCC PART 15 CLASS B

		Radiated Interference	EN55022, EN55024, FCC PART 15 CLASS B
	Harmaonic curre	nt	EN61000-3-2 CLASS D
	EMS	Conducted Emission	EN61000-4-6 Level3
		Radiated Emission	EN61000-4-3 Leve3 criterion B
		Power Frequency Emission	EN61000-4-8 Level3
		Electrostatic Emission	EN61000-4-2 Level4 criterion B
		EFT	EN61000-4-4 Level4 criterion B
		Surge	EN61000-4-5 Level4 criterion B
		Dip and Interruption	EN61000-4- 11
Dimensions (W*H*D)			130.5*124*45mm

Dimension

■ 结构尺寸:

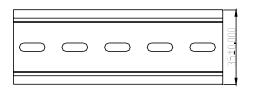


交流输入端子定义

位号	脚位功能	规格
1		/ OF ODINJE
2	N	6.35mm,3PIN螺
3	L	钉式接线端子

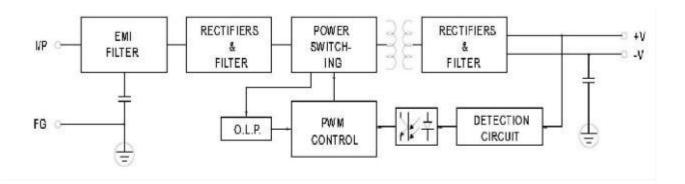
直流输出端子定义

位号	脚位功能	规格
1/2/3	V-	6.35mm,6PIN螺
4/5/6	V+	钉式接线端子



安装轨道: TS35/7.5或TS35/15

Block Diagram



Derating Curve

Static Characteristic Curve

