DIN Rail Mounting Industrial Power Supply For PLC AC/DC 480W

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: PRF480-48A30
- Minimum Order Quantity: 5 pieces
- Price: Negotiable
- Packaging Details: Paper box packing
- Delivery Time: 5-8 working days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 10000 pieces per month

Product Specification

- Features: Accept AC/DC
- Product Name: AC/DC 480W DIN-Rail Power Supply
- Application: Industrial Automation
- Mounting Type: DIN-Rail
- Output Voltage: 48-55V
- Max. Capacitive Load: 2700μF
- Output Power: 480W
- Leakage Current: 240VAC
- Cooling Method: Free Air Convection
- Highlight: **DIN Rail Industrial Power Supply 480W**, **Industrial Power Supply 480W**, **PLC Industrial Power Supply**

Product Description

Industrial Power Supply for PLC AC/DC 480W DIN-Rail Power Supply

Product Description

Industrial power supply 480W 48V/10A provide customers with cost-effective, standard rail-mounted, efficient and energy-saving green power supplies. Provide high stability and high anti-interference power supply for industrial control equipment, machines and other industrial equipment in various harsh environments. The power supply is small in size, light in weight, compact in structure, and standard railmounted, saving customers a lot of space. The product is safe and reliable, has good EMC performance, and safety specifications meet IEC/EN standards.

Features:

1. Input voltage:Universal 85 - 264VAC/120 - 370VDC
2. Accepts AC or DC Input(dual-use of same termlnal)
3. Operating amblent temperature range:-30 to +70
4. High efficiency up to 94%,high reliability
5. 3000VAC high isolation withstand voltage
6. DC OK function
7. Active PFC,PF > 0.95
8. Low ripple noise
9. Output short circuit,over-current,over-voltage,overtemperature protection
10. Can be installed on TS-35/7.5/15
11. Small size (48mm width)

Model No.	Output Power (W)	Nominal Output Voltage and Current (Vo/Io)	Output Voltage Adjustable Range (V)	Efficiency at 230VAC (%) Typ.	Max. Capacitive Load (μF)
PRF480-48 A30	480	48V/10A	48-55	94	2700

Input Specifications						
Item	Operating Conditions		Min.	Typ.	Max.	Unit
Input Voltage Range	AC input		85	---	264	VAC
	DC input		120	---	370	VDC
Input Voltage Frequency			47	---	63	Hz
Input Current	115VAC		---	---	5	A
	230VAC		---	---	2.5	
Inrush Current	115VAC	Cold start	---	20	---	
	230VAC		---	40	---	
Power Factor	115VAC		0.99	---	---	---
	230VAC		0.95	---	---	
Leakage Current	240VAC		<0.8mA			
Hot Plug			Unavailable			

Output Specifications						
Item	Operating Conditions		Min.	Typ.	Max.	Unit
Output Voltage Accuracy	Full load range		---	±1.0	---	%
Line Regulation	Rated load		---	±0.5	---	
Load Regulation	0%-100% load		---	±1.0	---	
Ripple & Nolse*	20MHz bandwidth (peak-peak value)	24V	---	---	100	mV
		48V	---	---	120	
Temperature drift coefficient			---	±0.03	---	%/
Min. Load			0	---	---	%
Power-off retention time			16	22	---	ms
DC OK Signal			30VDC/1A Max.			
Short Circuit Protection	Recovery time<10s after the short circuit disappear		Hiccup mode,constant current works 1s,turn off 10s,continuous,self-recovery			
Over-current Protection	230VAC,rated load	Normal temperature,high temperature	110% - 150% Io, output turns off after 1S of normal operation, self-recovery			
		Low temperature	≥105% Io,self-recovery			

Over-voltage Protection	24V		29V-35V (Output voltage is locked or clamped, input restart recovery or self-recovery)			
	48V		56V-60V (Output voltage is locked or clamped, input restart recovery or self-recovery)			
Over-temperature Protection	230VAC,100% Io	Over-temperature protection start	---	---	90	
		Over-temperature protection release	60	---	---	
Note: 1. The"tip and barrel method"is used for ripple and noise test,output parallel 47uF electrolytic capacitor and 0.1uF ceramic capacitor,please refer to Enclosed Switching Power Supply Application Notes for specific information; 2.*DC OK Signal: When the output voltage is normal, the relay is connected. When the output voltage is abnormal (<90% Vo), the relay is disconnected.						

General Specifications						
Item		Operating Conditions	Min.	Typ.	Max.	Unit
Isolation Test	Input-	Electric strength test for 1min,leakage current 10mA	2000	--	--	VAC
	Input-Output		3000	--	--	
	Output-		500	--	--	
Insulation Resistance	Input-	Test voltage: 500VDC	100	--	--	MΩ
	Input-Output		100	--	--	
	Output-		100	--	--	
Operating Temperature			-30	--	+70	
Storage Temperature			-40	--	+85	
Storage Humidity	Non-condensing		10	--	95	%RH
Operating Humidity			20	--	90	
Switching Frequency			--	--	--	kHz
Power Derating	Operating temperature derating	+50 to +70	2.5	--	--	%
	Input voltage derating	85VAC-100VAC	1.0	--	--	%VAC
Safety Standards			Desigh refer to IEC/EN			
Safety Class			CLASS I			
MTBF	MIL-HDBK-217F@25		300,000 h			

Physical Characteristics	
Case Material	Metal (AL1100, SPCC) and Plastic (PC940)
Dimensions	131.50 x 48.00 x 125.00 mm
Weight	980g (Typ.)
Cooling Method	Free air convection

EMC Characteristics			
EMI	CE	CISPR32/EN55032 CLASS B	
	RE	CISPR32/EN55032 CLASS B	
	Harmonic current	IEC/EN 61000-3-2 CLASS A and CLASS D	
EMS	ESD	IEC/EN 61000-4-2 Contact ±6KV/Air ±8KV	perf. Criteria A
	PS	IEC/EN 61000-4-3 10V/m	perf. Criteria A
	EFT	IEC/EN 61000-4-4 ±2KV	perf. Criteria A
	Surge	IEC/EN 61000-4-5 line to line ±2KV/line to ground ±4KV	perf. Criteria A
	CS	IEC/EN61000-4-6 10 Vr.m.s	perf. Criteria A
	Voltage dips,short interruptions and voltage variations immunity	IEC/EN61000-4-11 0%, 70%	perf. Criteria A

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