



Industrial Power Supply AC/DC 480W Din-rail 24V/20A Output DC OK Function

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: PRFT480-48A46S
- Minimum Order Quantity: 10 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

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Product Specification

- Description: 480W Power Supply
- Output Power: 480W
- Nominal Output: 48V/10A
- Output Voltage: 48-55V
- Inrush Current: 400VAC
- Working Temperature: -40 -70
- Storage Temperature: -40 -85
- Highlight: 24V Industrial Power Supply,
AC DC Industrial Power Supply,
20A Industrial Power Supply

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Product Description

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Product Description

The PRFT480-xxA46S series provides customers with three-phase rail-mounted power supplies. This series of power supplies has the advantages of high cost performance, high efficiency, high reliability, and safe isolation. There is a large power reserve of 150%, which is enough to support heavy loads such as starting DC motors or capacitive loads. The product is safe and reliable, with good EMC performance and EMC and safety specification design parameters. It complies with the standards of UL508, UL/IEC62368, EN62477 and IEC60664 and is widely used in industrial control fields such as industrial control equipment, factory automation and electromechanical equipment.

Features:

Input voltage range: 3x320-550VAC/450-800VDC. Three-phase input (two-phase operation possible)

Input can withstand 3x600VAC/5s

Active PFC, PF value up to 0.95

Working temperature range: -40 to +70 (50 full load)

DIN rail installation

High efficiency and high reliability

Output with LED indicator light

150% peak power for 3 seconds

Output short circuit, overcurrent, overvoltage, and overtemperature protection

DC OK function

Double-sided three-proof paint

Suitable for 5000m altitude application

Overvoltage level III, altitude 2000m (design reference EN61010)

Selection Guide

Model No.	Output Power	Nominal Output Voltage & Current (Vo/Io)	Output Voltage Adjustable Range (V)	Efficiency at 230VAC (%) Typ.	Max. Capacitive Load (μF)
PRFT480-48A46S	480	48V/10A	48-55	95	10000

Input Specifications

Item	Operating Conditions		Min.	Typ.	Max.	Unit
Input Voltage Range	Rated input (certified voltage)		380	--	480	VAC
	AC input		320	--	550	
	DC input		450	--	800	VDC
Input Voltage Frequency			47	--	63	Hz
Input Current	400VAC		--	--	0.85	A
	500VAC		--	--	0.7	
Inrush Current	400VAC	Cold start	--	50	--	
Power Factor	400VAC	Normal temperature, fully loaded	0.93	0.95	--	--
	500VAC		0.92	0.95	--	
Start Delay Time			--	0.8	--	s
Input Temporary Overvoltage	Rated load output, 600VAC input		5s/time, 10s interval, the product will not be damaged			
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 & Noise	20MHz bandwidth (peak-peak value)		--	--	150	mv
Temperature drift coefficient	0 to +50		--	±0.03	--	%/°C
Mim. Load			0	--	--	%
Dynamic Min. Load			10	--	--	%
Standby Power	400VAC		--	3.5	--	W
Power Off Hold Time	400VAC/500VAC		--	20	--	ms

1.5 times Io peak power		Sustainable work 3s			
Short Circuit Protection		Constant current mode, it enters hiccup mode after 3s (typ.) of constant current operation, which can prevent long-term short circuit protection, self-recovery			
Over-current Protection		≥130% Io, constant current mode, constant current operation for 3s (typical value) and then enters hiccup mode, self recovery			
Over-voltage Protection	24V	≤33VDC	Hiccups, self-recovery		
	48V	≤63VDC			
Over-temperature Protection	Over-temperature protection start	--	--	80	
	Over-temperature protection release	55	--	--	

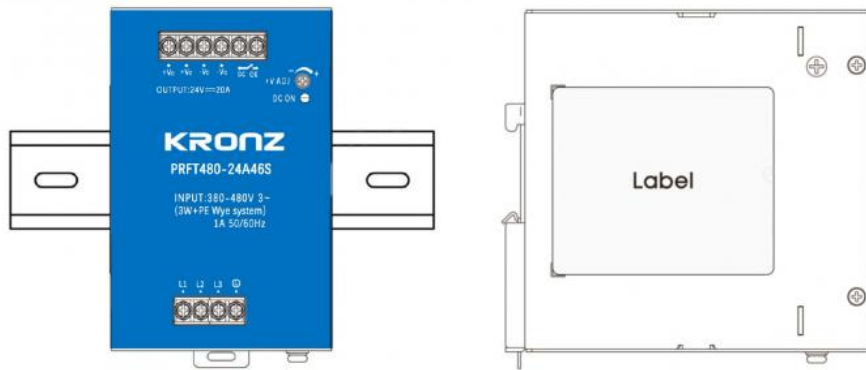
Note: 1.*The test method of ripple and noise adopts the reliable measurement method, and the output is connected in parallel with a 47uF electrolytic capacitor and a 0.1uF ceramic capacitor. For specific operation methods, please refer to the "Chassis Switching Power Supply Application Guide";
2.*Ripple and noise at full voltage at room temperature, <5%Io range, 300mv (Max.).

General Specifications							
Item		Operating Conditions		Min.	Typ.	Max.	Unit
Isolation Test	Input-Output	Test time 1 minute, leakage current <5mA		4000	--	--	VAC
	Input-Output			2000	--	--	
	Output-Output			500	--	--	
	Output-DC OK	Test time 1 minute, leakage current <1mA		500	--	--	
Insulation Resistance	Input-Output	Test voltage: 500VDC		100	--	--	MΩ
	Input-Output						
	Output-Output						
	Output-DC OK						
Operating Temperature				-40	--	+70	
Storage Temperature				-40	--	+85	
Operating Humidity		Non-condensing		--	--	95	%RH
Storage Humidity				--	--	95	
Output Power Derating		Operating temperature derating	-40 to -30	5.0	--	--	%
			+45 to +70	2.5	--	--	
		Input voltage derating	320-340VAC Three-phase input	1.0	--	--	%VAC
			320-380VAC Two-phase input (80%Io)	0.25	--	--	
Leakage Current		480VAC		<0.5mA RMS			
Safety Class				CLASS I, ANSI/ISA71.04-2013			
MTBF		MIL-HDBK-217F@25		300,000 h			

Environmental Characteristics		
Item	Working Condition	Standard
Sinusoidal vibration test	10 - 500Hz, 2g, x, y, z axis three directions	GB2423.10, IEC60068-2-6

Environmental Characteristics	
Shell	Metal (AL5052, SPCC)
Dimensions	124.00 x 41.00 x 110.00 mm
Weight	1080g (Typ.)
Cooling Method	Free air convection

Installation Diagram



About Us

Kronz is a manufacturing enterprise located in Zengcheng District, Guangzhou City. We focus on providing customers with high-efficiency industrial automation solutions and related industrial products. After many years of innovation and development, Kronz has complete product processing equipment and a professional team proficient in various automation technologies. In order to improve the quality of products and production efficiency, we continue to introduce advanced production equipment and technology, strengthen investment in research and development. At present, our main products include Industrial Connectors, Inductive Sensors, Capacitive Sensors, Photoelectric Sensors, Ultrasonic Sensors, Industrial power supplies, Industrial fieldbus, RFID recognition systems, Industrial Ethernet Switches. We not only produce the orders of standard products, but also have the ability to make customized production based on customer design drawings or samples. Adhering to the principle of mutual benefit, we provide our customers with competitive prices, and perfect after-sales service. Kronz's products have been sold in multiple countries and have won the trust and praise of customers. Kronz expects to cooperate with you.

FAQ

- Q: Where is this product manufactured?
A: This product is manufactured in Guangdong, China.
- Q: Does this product have any certifications?
A: Yes, this product is CE certified.
- Q: What is the minimum order quantity for this product?
A: No MOQ.
- Q: Is the price of this product negotiable?
A: Yes, we will offer different price according to the quantity.
- Q: How is this product packaged?
A: This product is packaged in polybag packing, export carton.
- Q: What is the delivery time for this product?
A: The delivery time for this product is 5-8 working days for small quantity, if more quantity, please contact with seller.
- Q: What payment terms are accepted for this product?
A: The payment terms accepted for this product are T/T, Western Union, and MoneyGram.
- Q: What is the supply ability of this product?
A: The supply ability of this product is 1000 pieces per month.

KRONZ Kronz (guangzhou) Electronics Co., Ltd.



+8618924160375



sales02@kronz.cn



connector-industrial.com

6th Floor, B602 Building, No.10, Rong Jing 2nd Road, Yu Shan Guo Ji, Yong Ning Street, Zeng Cheng District,
Guangzhou, P.R.China