



480W Power Supply AC/DC Din-rail 24V/20A High Efficiency Power Supply 24V

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: PRFT480-24A46
- 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

KRONZ



Product Specification

- Description: 480W Power Supply
- Output Power: 480W
- Nominal Output: 48V/20A
- Output Voltage: 24-28V
- Inrush Current: 400VAC-480VAC
- Housing: Metal (AL5052, SPCC)
- Cooling: Natural Air Cooling
- Highlight: AC/DC Din-rail Power Supply,
24V Din-rail Power Supply,
20A Din-rail Power Supply



More Images



Product Description

480W Power Supply AC/DC Din-rail 24V/20A High Efficiency Power Supply 24V

Product Description

The PRFT480-xxA46 Series is a three-phase DIN rail power supply designed to meet customer needs. This series offers high cost performance, efficiency, reliability, and safe isolation. With a 150% high power reserve, it is capable of supporting the startup of DC motors, capacitive loads, and other heavy loads. The product is safe and reliable, with excellent EMC performance, meeting international standards such as IEC/UL62368, EN61010, and UL508. It is widely used in industrial control equipment, factory automation, and electromechanical devices in various industrial control applications.

Features:

Input voltage: 3x320-600VAC/450-800VDC
 Active PFC, PF > 0.95
 Operating temperature range: -30 to +70 (60 full load)
 DIN Rail installation
 High efficiency, high reliability
 Output with LED indicator
 Output with LED indicator light
 150% peak power for 4.5 seconds
 Output short circuit, over-current, over-voltage, over temperature protection
 Supports parallel connection (2+1 current sharing) and series connection
 Fault warning, DC OK, anti-backflow function
 Double-sided three-proof paint, anti-salt spray
 RS485 communication, remote shutdown (PS ON)
 Meets 5000m altitude application
 Overvoltage level III (in compliance with EN61010)
 Comply with ANSI/ISA 71.04-2013 G3 level anti-corrosion test
 Comply with IEC/UL62368, EN61010, UL508 and other certification standards

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)
PRFT480-48A46	480	24V/20A	24-28	95	20000

Input Specifications

Item	Operating Conditions		Min.	Typ.	Max.	Unit
Input Voltage Range	Rated input (certified voltage)		380	--	480	VAC
	AC input		320	--	600	
	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 to 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		$\geq 130\%$ Io, constant current mode, constant current operation for 3s (typical value) and then enters hiccup mode, self recovery			
Over-voltage Protection	24V	$\leq 33\text{VDC}$	Hiccups, self-recovery		
	48V	$\leq 63\text{VDC}$			
Over-temperature Protection	Over-temperature protection start	--	--	80	
	Over-temperature protection release	55	--	--	

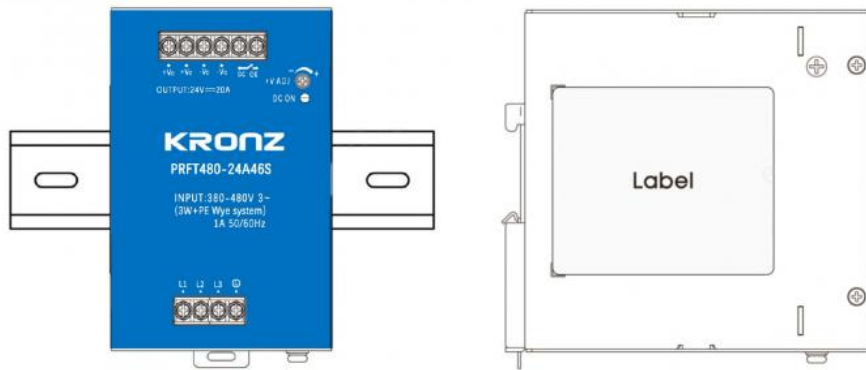
Note: 1.*The test method of ripple and noise adopts the reliable measurement method, and the output is connected in parallel with a 47uF electrolytic capacitor and a 0.1uF ceramic capacitor. For specific operation methods, please refer to the "Chassis Switching Power Supply Application Guide";
2.*Ripple 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-			2000	--	--	
	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-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
			320-380VACTwo-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.

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