Industrial Metal DIN Rail Power Supply AC/DC 120W 12V/10A For PLC

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: PRF120-12A30
- 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

Product Specification

- Product Name: AC/DC 120W Din-rail Power Supply
- Input: AC/DC
- Nominal Output: 12V/10A
- Voltage Range: 11.8-14.0V
- Max. Capacitive Load: 80000μF
- Output Power: 120W
- Leakage Current: 240VAC
- Start Delay Time: 230VAC
- Highlight: **DIN Rail Power Supply 120W**, **PLC DIN Rail Power Supply**, **DIN Rail Power Supply 10A**

Product Description

Industrial Power Supply AC/DC 120W 12V/10A DIN-rail Metal for PLC

Product Description

Industrial power supply 120W, 12V/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.

Features:

Input voltage:Universal 85 - 264VAC/120 - 370VDC
Accepts AC or DC Input(dual-use of same termlnal)
Operating amblent temperature range:-40 to +70
High efficiency, high reliability
DC OK function
Active PFC
150% peak power for 3 seconds of continuous output
Power supply start LED indicator light
Output short circuit, over-current,over-voltage, over-temperature protection
Satisfy 5000m altitude applications
Overvoltage level II
Indoor use

Selection Guide

Model No.	Output Power	Nominal Output Voltage &Current (Vo/lo)	Output Voltage Adjustable Range (V)	Efficiency at 230VAC (%) Typ.	Max. Capacitive Load (μF)
PRF120-12A30	120	12V/10A	11.8-14.0	93.5	80000

Input Specifications

Item	Operating Conditions		Min.	Typ.	Max.	Unit
Input Voltage Range	Rated input (certified voltage)		100	--	240	VAC
	AC input		85	--	264	
	DC input		120	--	370	VDC
Input Voltage Frequency	Rated AC input		50	--	60	Hz
	AC input		47	--	63	
Input Current	Rated input		--	--	1.5	A
	115VAC		--	--	1.5	
	230VAC		--	--	0.75	
Inrush Current	115VAC	Cold start	--	15	--	
	230VAC		--	30	--	
Leakage Current	240VAC		<1mA			
Power Factor	115VAC		--	0.98	--	--
	230VAC		--	0.94	--	
Start Delay Time	230VAC		--	300	1000	ms
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)	12V/24V	--	--	100	mv
		48V/55V	--	--	120	
Standby Power			--	2	--	W
Power-off retention time			--	20	--	ms
DC OK Function	Resistive load		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	105%-200%Io,self recovery			
		Low temperature	≥105% Full load after derating, self recovery			
Over-voltage Protection	12V		≤18V	Hiccup, can self recover after the abnormal state is resolved		
	24V		≤35V			
	48V		≤60V			
	55V		≤63V			
Over-temperature Protection	230VAC,70% load	Over-temperature protection start	--	90	--	
		Over-temperature protection release	60	--	--	
Note: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-Output	Electric strength test for 1min,leakage current 15mA		1500	--	--	VAC
	Input-Output			3000	--	--	
	Output-			500	--	--	
Insulation Resistance	Input-Output	Test voltage: 500VDC		50	--	--	MΩ
	Input-Output			50	--	--	
	Output-			50	--	--	
Operating Temperature				-40	--	+70	
Storage Temperature				-40	--	+85	
Storage Humidity		Non-condensing		--	--	95	%RH
Operating Humidity				20	--	95	
Switching Frequency				--	100	--	kHz
Output Power Derating		Operating temperature derating	-40 to -25	3.34	--	--	%
			+55 to +70 85VAC-164VAC	2.0	--	--	
			+60 to +70 165VAC-264VAC	3.0	--	--	
		Input voltage derating	85VAC-100VAC	0.67	--	--	%VAC
Safety Standards		12V/24V/48V55V		UL61010-1,UL61010-2-201 safety approved&EN62368-1 Comform to IEC/UL/BS EN 62368-1			
		55V		Conform to IEC/EN/UL/BS EN 62368-1,UL61010-1,UL61010-2-201			
Safety Class				CLASS I			
MTBF		MIL-HDBK-217F@25		300,000 h			

Physical Characteristics	
Case Material	Metal (AL5052,SPCC,SGCC)
Dimensions	110.00 x 32.00 x 124.00 mm
Weight	490g ±1% (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 ±4KV	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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