



Industrial Din Rail Metal Case Power Supply 240W Power DC OK 48V/5A LED Display

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: PRF240-48A30
- 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

- Description: 240V Power Supply
- Output Power: 240W
- Nominal Output: 48V/5A
- Output Voltage: 48.0-53.0
- Leakage Current: <0.5mA
- Safety Standards: 48V
- Test Voltage: 500VDC
- Pollution Degree: 2
- Highlight: Din Rail Metal Case Power Supply , Metal Case Power Supply 240W , 48V LED Display Power Supply



Product Description

Industrial Power Supply 240W Power DC OK 48V/5A Metal Case Din-rail LED Display

Product Description

Industrial power supply 240W, 48V/5A 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 terminal)

Operating ambient 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/Io)	Output Voltage Adjustable Range (V)	Efficiency at 230VAC (%) Typ.	Max. Capacitive Load (μF)
PRF240-24A30	240	48V/5A	48.0-53.0	94	10000

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		--	--	3	A
	115VAC		--	--	3	
	230VAC		--	--	1.5	
Inrush Current	115VAC	Cold start	--	15	--	
	230VAC		--	30	--	
Leakage Current	264VAC		<0.5mA			
Power Factor	115VAC		--	0.98	--	--
	230VAC		--	0.94	--	
Hot Plug			Unavailable			

Output Specifications						
Item	Operating Conditions		Min.	Typ.	Max.	Unit
Output Voltage Accuracy	Full load range	48V	--	±1.0	--	%
Line Regulation	Rated load		--	±0.5	--	
Load Regulation	0% - 100% load		--	±1.0	--	
Ripple & Noise	20MHz bandwidth (peak-peak value)	48V	--	75	150	mv
Standby Power			--	4	--	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	110%-200% Io, self recovery		
			Low temperature	≥105% Io, self recovery		

Over-voltage Protection	48V		≤60V	Hiccup, can self recover after the abnormal state is resolved		
Over-temperature Protection	230VAC rated load	Over-temperature protection start	--	80	--	
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-	Electric strength test for 1min,leakage current 15mA		2000	--	--	VAC	
	Input-Output			3000	--	--		
	Output-			500	--	--		
Insulation Resistance	Input-	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				--	--	90		
Switching Frequency				--	100	--	kHz	
Output Power Derating		Operating temperature derating	-40 to -25		3.34	--	--	%
			+45 to +70	115VAC	2.0	--	--	
			+50 to +70	230VAC	1.25	--	--	
			+60 to +70	230VAC	2.5	--	--	
		Input voltage derating	85VAC-100VAC		0.67	--	--	%VAC
Safety Standards		48V		UL61010-1,UL61010-2-201,IS13252(part1)&EN 62368-1. Conform to IEC/UL/BS EN 62368-1				
Safety Class				CLASS I				
MTBF		MIL-HDBK-217F@25		300,000 h				
Pollution Degree				2				

Physical Characteristics	
Case Material	Metal (AL5052,SPCC)
Dimensions	124.00 x 41.00 x 110.00 mm
Weight	650g (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 ±8KV/Air ±15KV	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 B



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