



## 240W AC/DC Industrial Power Supply Active PFC

### Our Product Introduction

#### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: PRF240-12A30
- 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: 240W Industrial Power Supply
- Output Power: 192W
- Nominal Output: 12V/16A
- Output Voltage: 12.0-14.0
- Max. Capacitance: 160,000  $\mu$ F
- Case Material: Metal
- Dimensions: 124 X 41 X 110 Mm
- Cooling Method: Free Air Convection
- Highlight: 240W Industrial Power Supply,  
Active PFC Industrial Power Supply,  
240W AC Industrial Power Supply



## Product Description

### 240W Power AC/DC Input Indoor Use 12V/16A Industrial Power Supply Active PFC

#### Product Description

Industrial power supply 192W, 12V/16A 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) |
|--------------|--------------|------------------------------------------|-------------------------------------|-------------------------------|---------------------------|
| PRF240-12A30 | 192          | 12V/16A                                  | 12.0-14.0                           | 92                            | 160,000                   |

#### 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                                       | 12V                                                                             | --   | ±2.0 | --   |
| Line Regulation          | Rated load                                            | --                                                                              | ±1.0 | --   | %    |
| Load Regulation          | 0% - 100% load                                        | --                                                                              | ±0.5 | --   |      |
| Ripple & Noise           | 20MHz bandwidth (peak-peak value)                     | 12V                                                                             | --   | 50   | 100  |
| 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 | 105%-200%Io, self recovery |                                                               |    |  |
|                                                                                                                                                                                                                                                                                                                                                                                             |                    | Low temperature                      | ≥105%Io, self-recovery     |                                                               |    |  |
| Over-voltage Protection                                                                                                                                                                                                                                                                                                                                                                     | 12V                |                                      | ≤18V                       | Hiccup, can self recover after the abnormal state is resolved |    |  |
| Over-temperature Protection                                                                                                                                                                                                                                                                                                                                                                 | 230VAC Rated load  |                                      | --                         | 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;<br>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   | 12V, 230VAC                                                                       | 1.25 | --   | --   |      |
|                        |              |                                                      | +60 to +70   | Other, 230VAC                                                                     | 3.0  | --   | --   |      |
|                        |              | Input voltage derating                               | 85VAC-100VAC |                                                                                   | 0.67 | --   | --   | %VAC |
| Safety Standards       |              | 12V                                                  |              | UL61010-1,UL61010-2-201 safety approved&EN62368-1 Comform 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 ±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/EN 61000-4-6 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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