



48V/120W Industrial PoE adaptor

DIN
Rail



IES7210-P120-48V

Key Features:

- Industrial 120-watt DIN-Rail mount AC/DC Power supply
- Universal AC input from 90 to 264 VAC
- 48V DC output
- Short circuit, current overload, over-voltage, and over-temperature protection
- High-efficiency of 89%
- Cooling by free air convection
- EN90650-1, EN61000-6-2, and (EN50082-2) approved

Industrial 120-Watt AC to DC Power Supply, DIN-Rail Mount, Choose or 48 Volt Output

The IES7210-P120-48V is a 120-watt industrial DIN-rail mount AC to DC power supply with a choice of voltage output. It features a wide AC input range, high-efficiency, and full load operation over a broad ambient temperature range. The slim, rugged metal case includes a clip that mounts onto standard TS-35/7.5 and TS-35/15 sized DIN rails. Internal circuitry protects against current overload, over-voltage, excessively high temperatures, and short circuits. The IES7210-P120-48V is fully certified to EMC and safety standards like TUV EN60950-1, EN61000-3-2. It fits well into control panels and is ideal for powering Antaira's line of unmanaged and managed Ethernet switches and networking devices.

Stable Performance under Difficult Environments

Benchu Group DC single output industrial DIN rail power supply units come with such protection features as short circuit, overload, over voltage and over temperature for the stable operation of industrial Ethernet equipment. It uses the free air convection cooling system to prevent operating temperature from rising. Being able to operate under the temperature range from -40 to 85 degrees C (maximum), the DC single output industrial DIN rail power supply units can be placed in almost any difficult environments.

Compact Size with more Practicability and Convenience

Benchu Group has released a series of DC single output industrial DIN rail power supply units to make sure that industrial Ethernet devices, specially designed for the harsh working environment, get DC voltage power easily.

Benchu Group DC single output industrial DIN rail power supply units accept universal 100-240V AC input voltage and provide 48-56V DC power output with various watt values. Its power supply units are designed in compact size and can be installed on DIN rail installation. It is an ideal and convenient DC power feeding solution for Industrial equipment under heavy Industrial environments.

IES7210-P120-48V

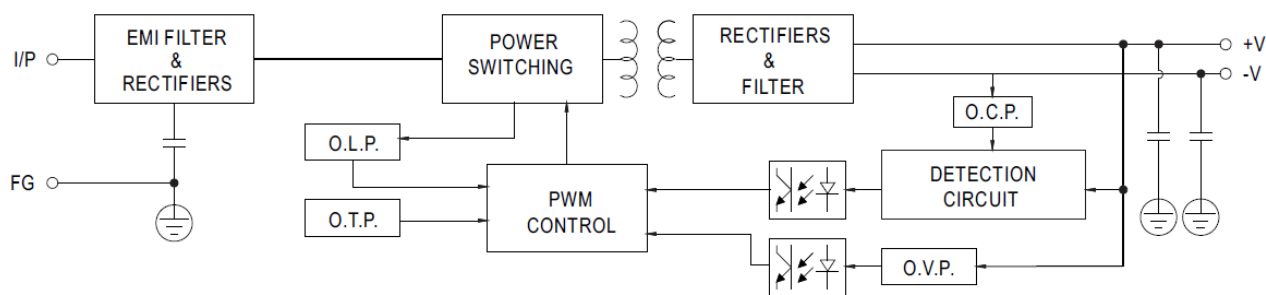
48V/120W Industrial PoE adaptor

Technical Datasheet

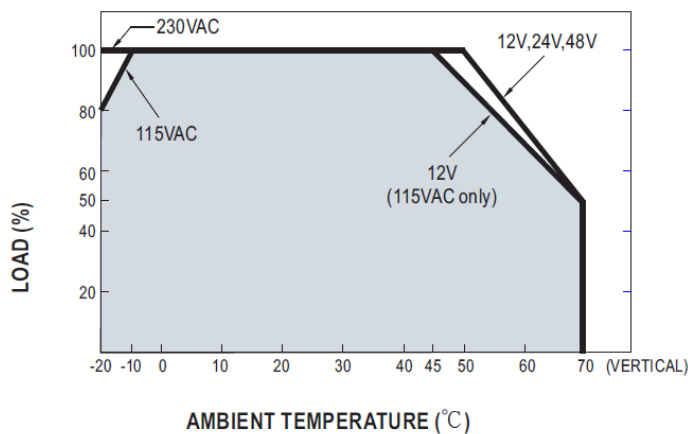
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|-----------------------|---|
| Model | IES7210-P120-48V |
| Power | |
| Rated Power | 120 watts |
| Output Voltage | 48V |
| Connection | Input: 3-position terminal block; Output: 4 position terminal block |
| Input Voltage | 90 to 264 VAC 127 to 370 VDC |
| Overload Protection | 105% ~ 130% constant current limiting, auto-recovery |
| Switch Architecture | Store and Forward |
| Inrush Current | Cold start, 20 A at 115 VAC, 35 A at 230 VAC |
| Hold Up Time | 60 ms / 230 VAC and 12 ms / 115 VAC at full load |
| Mechanical | |
| Dimensions | 32 x 125.2 x 102 mm |
| Weight | 0.51 kg (1.1 lbs.) |
| Shock / Vibration | 10 to 500 Hz, 2G 10 min./cycle, 60 min. along X, Y, Z axes; IEC60068-2-6 compliance |
| Ratings | |
| Operating Temperature | -40 to 85° C (refer to output derating curve) |
| Humidity | 5 to 95% non-condensing |
| Safety Standards | TUV EN60950-1, EN60204-1, and EAC TP TC 004 approved |
| EMC | EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2,-3, EAC TP TC 020, EN61000-4-2,3,4,5,6,8,11, EN55024, and EN61000-6-2 (EN50082-2) |
| MTBF | 486,200 hours per MIL-HDBK-217F (25°C) |

Block Diagram

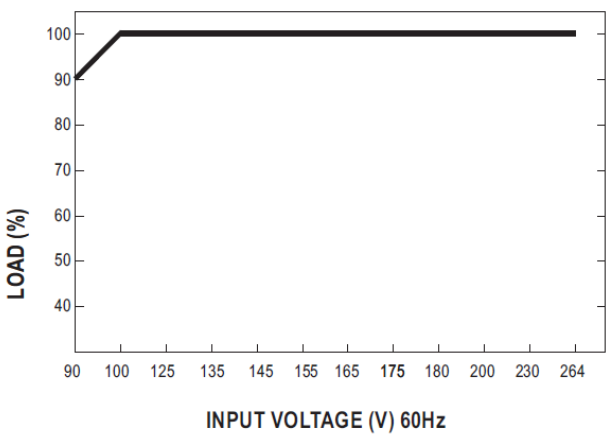
fosc : 70KHz



Derating Curve



Static Characteristics



The three views of the power supply are as follows:

- Side View (Left):** Shows the unit's profile with a width of 102mm and a height of 35mm. It features a mounting bracket on the left side and a small label on the right side.
- Front View (Middle):** Shows the front panel with a width of 32mm and a height of 125.2mm. It includes two terminal blocks: TB2 at the top with pins 1, 2, 3, and DCOK; and TB1 at the bottom with pins 1, 2, and 3. There are also two circular indicators labeled OV and DCOK.
- Side View (Right):** Shows the unit's profile from the opposite side, highlighting the mounting bracket and the small label.

The diagram illustrates the wiring for a PoE system. A power source (Power) is connected to a PoE switch. The switch has two ports labeled 'PWR'. One 'PWR' port is connected to a PoE camera, and the other 'PWR' port is connected to a PoE antenna. The camera and antenna are shown with their respective PoE ports and labels.

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