

# BN-IPW-120-48

## 48V/120W Industrial Din Rail PoE adaptor



### 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 BN-IPW-120-48 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 BN-IPW-120-48 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 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

The new released 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.

This 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.

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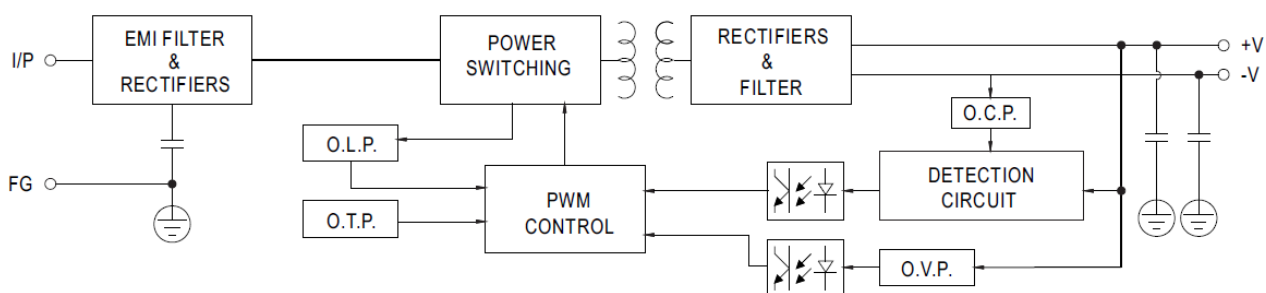


### Technical Datasheet

|                       |   |
|-----------------------|---|
| <b>Model</b>          | <b>BN-IPW-120-48</b>  |
| <b>Power</b>          |   |
| 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  |
| <b>Mechanical</b>     |   |
| 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   |
| <b>Ratings</b>        |   |
| 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                  | 488,253 hours per MIL-HDBK-217F (25°C)  |

### Block Diagram

fosc : 70KHz

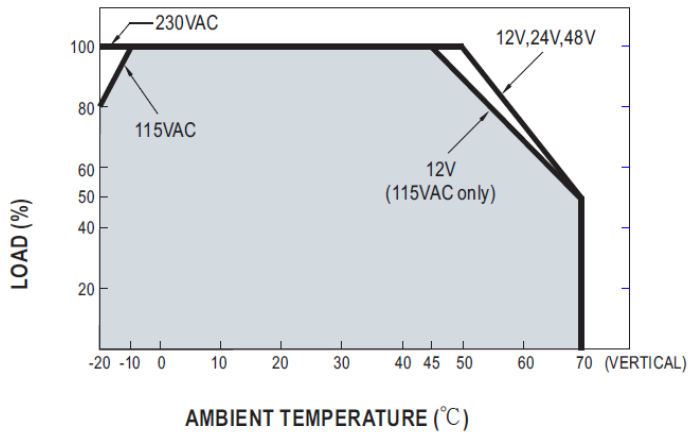


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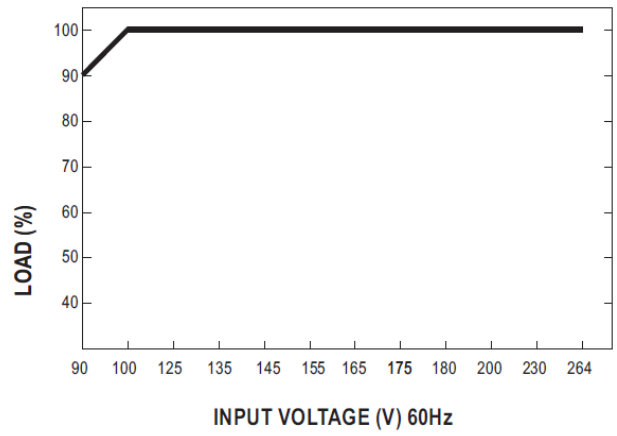
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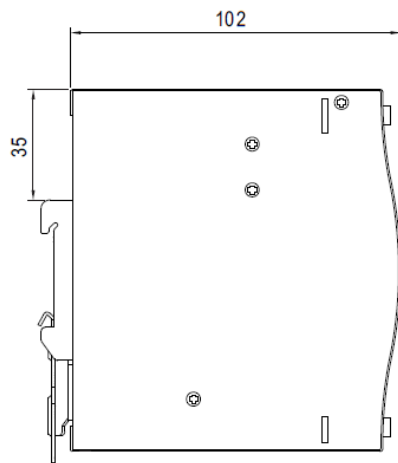
### Derating Curve



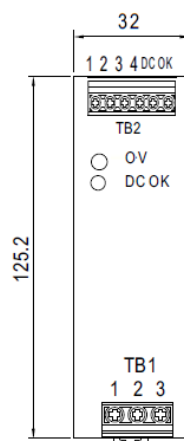
### Static Characteristics



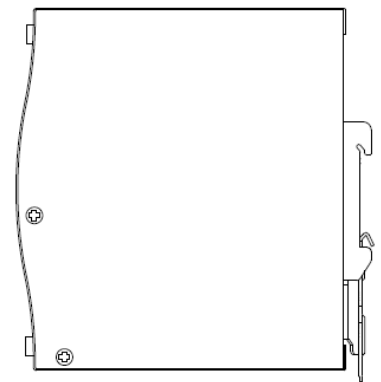
### Mechanical Specification



Side View



Front View



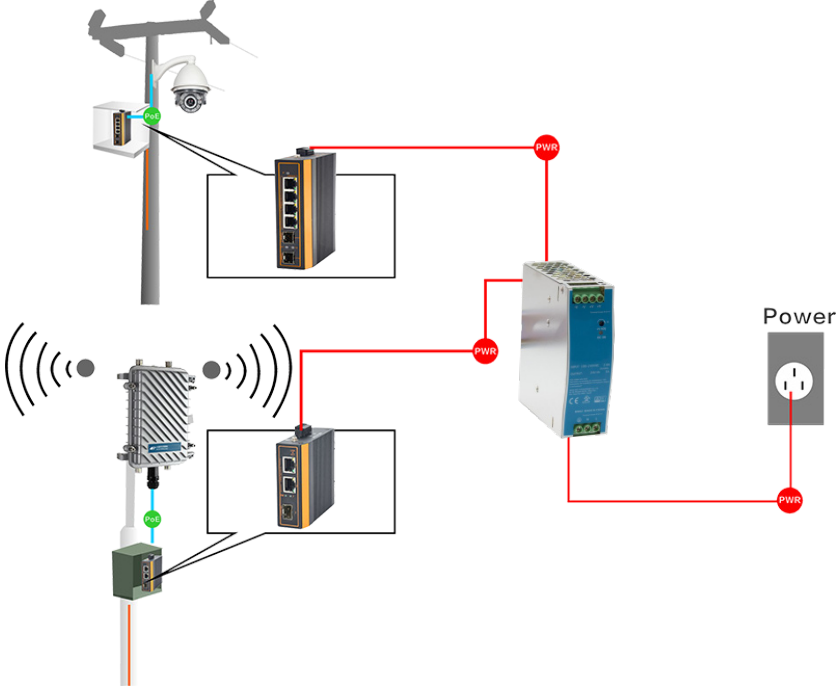
Side View

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### Applications



### Ordering Information

BN-IPW-120-48

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

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