Features:
- Universal AC input 88 - 264Vac
- Installed on DIN rail TS35 / 7.5 or 15
- Brown-out protection
- Protections: Short circuit / Over load / Over voltage
- All using 105°C long life electrolytic capacitors
- High operation temperature up to 70°C
- True DC OK signal output
- Withstand 2G vibration test
- High efficiency, long life and high reliability
- 3 years warranty
- UL508 (Industrial control equipment) listed
- UL1310 Class 2 Power unit / LPS pass

### Model Overview

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</thead>
<tbody>
<tr>
<td>DN-10-12</td>
<td>12V</td>
<td>0.84A</td>
<td>0 ~ 0.84A</td>
<td>10.08W</td>
<td>100 mVp-p</td>
<td>10.8 ~ 13.2V</td>
<td>±1%</td>
<td>±1%</td>
<td>±1%</td>
<td>&lt;800ms, &lt;100ms/230V at full load</td>
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<tr>
<td>DN-10-15</td>
<td>15V</td>
<td>0.67A</td>
<td>0 ~ 0.67A</td>
<td>10.05W</td>
<td>100 mVp-p</td>
<td>13.5 ~ 16.5V</td>
<td>±1%</td>
<td>±1%</td>
<td>±1%</td>
<td>&gt;32ms / 230VAC =&gt;16ms / 115VAC at full load</td>
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<tr>
<td>DN-10-24</td>
<td>24V</td>
<td>0.42A</td>
<td>0 ~ 0.42A</td>
<td>10.08W</td>
<td>120 mVp-p</td>
<td>21.6 ~ 26.4V</td>
<td>±1%</td>
<td>±1%</td>
<td>±1%</td>
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### Input

- **Voltage Range**: 88V ~ 264VAC
- **Frequency Range**: 47Hz ~ 63Hz
- **Efficiency (Typ.)**: 81%
- **AC Current (Typ.)**: 0.23A / 15VAC, 0.17A / 240VAC
- **Inrush Current (Typ.)**: 15A / 115VAC, 30A / 230VAC
- **Leakage Current**: <1mA / 230VAC

### Protection

- **Over Load**: >102% rated output power
- **Protection type**: constant current limiting, automatically after fault condition is removed
- **Over Voltage**: 115% ~ 150% rated output voltage
- **Protection type**: latch-off mode

### Environment

- **Working Temp.**: -20°C ~ 70°C (Refer to output load de-rating curve)
- **Working Humidity**: 20 ~ 90% RH non-condensing
- **Storage Temp., Humidity**: -40 ~ +85°C, 10 ~ 95% R.H
- **Temp. Coefficient**: ±0.03%/°C (0 ~ 50°C)
- **Vibration**: 10 ~ 500Hz, 2G 10min./1 cycle, period for 60 min. Each along X, Y, Z axes

### Safety & EMC

- **Safety Standards**: UL508, TUV EN60950-1, UL1310 NEC Class 2 compliant
- **Withstand Voltage**: I/P - O/P: 3KVAC (4242 DC), I/P - FG: 1.5KVAC (2121 DC), 1 minute
- **Isolation Resistance**: I/P - O/P, I/P - FG, O/P - FG: 100M Ohms / 500VDC
- **Harmonic Current**: EN61000-3-2:2006 Class A, EN61000-3-3:2008

### Others

- **DC OK signal**: Open collector, Max: 40mA
- **MTBF (MIL-HDBK-217F)**: 562.7K HRS
- **Connection**: I/P 3 poles, O/P : 3 poles screw DIN terminal
- **Cabling**: Free Air convection
- **Dimension (W*H*D)(mm)**: 23x90x99
- **Packing**: 0.13kg ; 48Pcs / 7.44kg

### Note

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47 uf parallel capacitor.
3. Tolerance: includes set up tolerance, line regulation and load regulation.
4. De-rating may be needed under low input voltages. Please check the de-rating curve for more details.
5. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
6. In parallel connection, maybe only one unit operate if the total output load is less than 5% of rated load condition.
## Mechanical Specification

![Diagram showing mechanical specifications](image)

install DIN rail TS35 / 7.5 or TS35 / 15

## Application of DC OK Active Signal

### (a) 5V signal

DC OK

Model | R  | 12V  | 15V  | 24V  |
------|----|------|------|------|
      | R  | 1.5KΩ| 2KΩ  | 3.9KΩ|
V.    | 5.1V|      |      |      |

### (b) LED

DC OK

Model | R  | 12V  | 15V  | 24V  |
------|----|------|------|------|
      | R  | 2.4KΩ| 3KΩ  | 4.7KΩ|
V.    |      |      |      |      |

### (c) Relay

DC OK

Model | R  | 12V  | 15V  | 24V  |
------|----|------|------|------|
      | R  | 700Ω | 700Ω | 1.2KΩ|
V.    |      |      |      |      |

## Block Diagram

![Block diagram](image)

## De-rating Curve

### Load V.S Temp.

![Graph showing load vs temperature](image)

### Load V.S I/P Voltage

![Graph showing load vs input voltage](image)