

120W & 240W DIN Rail Mount Power Supplies

Features

- ◆ Low Cost
- ◆ 12V, 24V or 48V Outputs
- ◆ Auto-ranging input (no manual switching)
- ◆ Parallel Function Switch
- ◆ -40⁽²⁾ to +71°C Operation

Key Market Segments & Applications



Industrial



RoHS

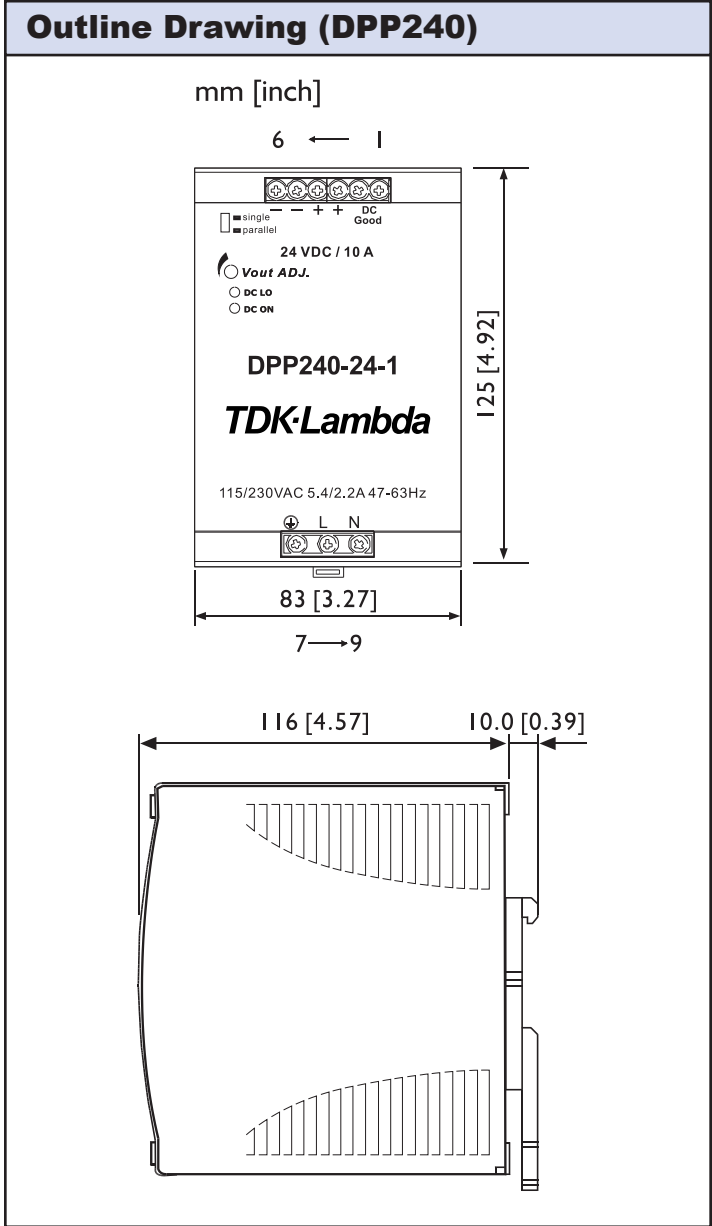
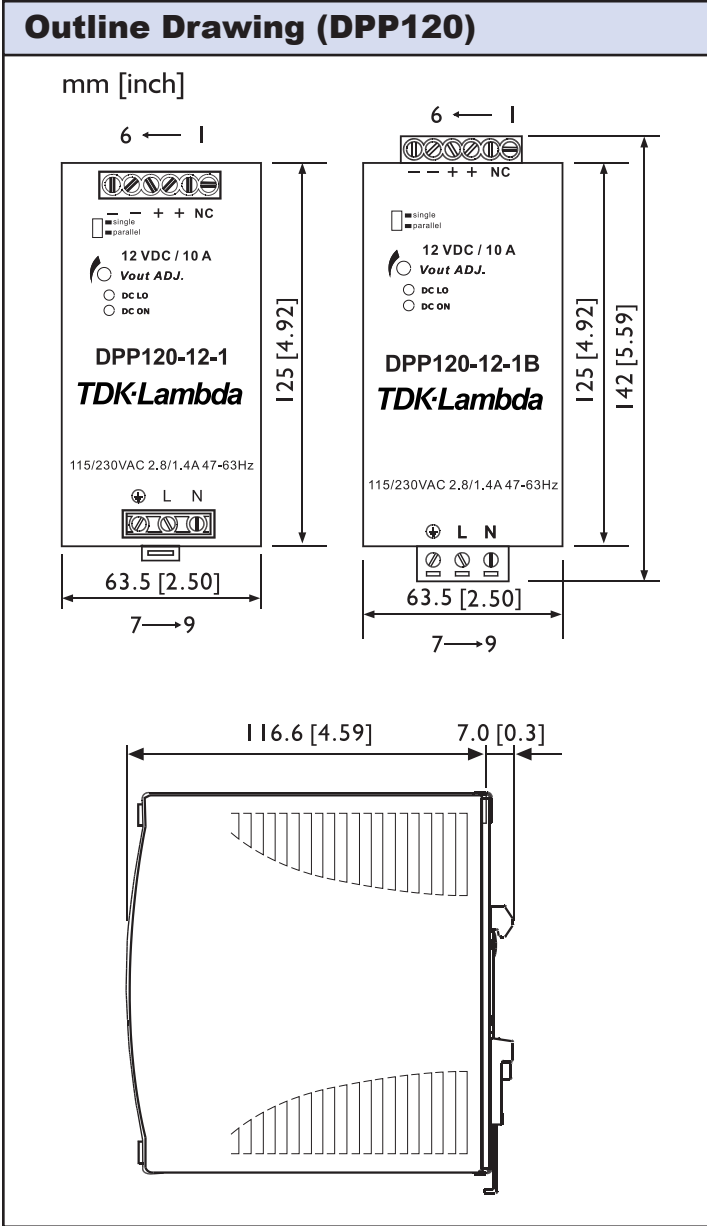
Specifications

| Model | | DPP120-xx-1 | DPP240-xx-1 |
|--------------------------------|-----|---|---------------------|
| AC Input Voltage range | VAC | 93 - 132 / 186 - 264VAC, single phase. Auto select | |
| Input Frequency | Hz | 47 - 63Hz | |
| DC Input Voltage range | VDC | 210 - 370VDC* | |
| Inrush Current (115 / 230VAC) | A | 24 / 48A | 30 / 60A |
| Power Factor | - | Meets EN61000-3-2 | |
| Input Current (115 / 230VAC) | A | 2.8 / 1.4A | 5.4 / 2.2A |
| Leakage Current | mA | 3.5mA | |
| Output Voltage Accuracy | % | -0, +1% of Nominal | |
| Line Regulation | % | ±0.5% | |
| Load Regulation | % | ±1% (±5% when set in parallel mode) | |
| Ripple and Noise (20MHz BW) | mV | 50mV | 100mV |
| Overcurrent Protection (Typ) | - | 110 - 145% | |
| Overvoltage Protection | V | See model selector | |
| Overtemperature Protection | - | - | |
| Hold Up Time (230VAC input) | ms | > 30ms | |
| Parallel operation | - | Set in parallel (droop) mode - maximum of 3 units | |
| LED Indicators | - | Green LED = On, Red LED = DC Output Low | |
| DC Good Relay (24V model only) | - | 0.3A rated normally open relay contacts, closes when output is above 17.6 - 19.4V | |
| Operating Temperature | °C | -40 ⁽²⁾ to +71°C (Derate linearly 2.5%/°C from 61 to 71°C) | |
| Storage Temperature | °C | -40 to +85°C | |
| Operating Humidity | - | 20 - 95% RH (non condensing) | |
| Cooling (1) | - | Convection | |
| Withstand Voltage | - | Input to Output 3kVAC for 1 min. | |
| Isolation Resistance | - | >100M at 25C & 70%RH, Output to Ground 500VDC | |
| Vibration (Operating) | - | IEC 60068-2-6 (Mounting by rail: Random wave, 10-500 Hz, 2G, ea. along X, Y, Z axes 10 min/cycle, 60 min) | |
| Shock (Operating) | - | IEC 60068-2-27 (Half sine wave, 4G, 22ms, 3 axes, 6 Faces, 3 times for each face) | |
| Safety Agency Approvals | - | UL508 Listed, IEC/UL/CSA/EN62368-1, 60950-1, CE Mark | |
| Conducted & Radiated EMI | - | EN55022 class B | EN55022 class A |
| Immunity | - | IEC 61000-4-2, -3, 4, -5, -6, -8, -11 | |
| Weight (Typ) | g | 920 | 1000 |
| Size (LxWxH) | mm | 116.6 x 63.5 x 125mm | 116 x 83 x 125mm |
| Size (LxWxH) (1) | in | 4.59 x 2.5 x 4.92" | 4.57 x 3.27 x 4.92" |
| Case material | - | Metal | |
| Warranty | yrs | Three years | |

(1) Recommend 1" clearance on all sides

(2) DPP120 -35°C

*Safety certified for AC input only



Model Selector

| Model | Voltage | Adjust. Range | Output Curr. | Over-voltage | Eff. |
|-------------|---------|---------------|--------------|--------------|------|
| DPP120-12-1 | 12V | 11.4 - 14.5V | 10A | 15 - 17.4V | 84% |
| DPP120-24-1 | 24V | 22.5 - 28.5V | 5A | 30 - 34.8V | 86% |
| DPP120-48-1 | 48V | 45 - 55V | 2.5A | 60 - 69.6V | 87% |
| DPP240-24-1 | 24V | 22.5 - 28.5V | 10A | 30 - 34.8V | 89% |
| DPP240-48-1 | 48V | 47 - 56V | 5A | 60 - 69.6V | 90% |

Terminal Assignments

| # | Function |
|---|----------------|
| 1 | DC Good relay |
| 2 | DC Good relay |
| 3 | +V |
| 4 | +V |
| 5 | -V |
| 6 | -V |
| 7 | Chassis ground |
| 8 | L |
| 9 | N |

Other DIN Rail Products

| | |
|--------|-----------------------------|
| DPP | 15W to 100W |
| DPP480 | 480W single and three phase |
| DSP | 10W to 100W low profile |
| DLP | 75W to 240W single phase |

Snap-on Mounting: snap onto DIN Rail TS35/7.5 or TS35/15. (no tools required)

Options

| Suffix | Description |
|--------|--|
| Blank | Non detachable connectors |
| B | Detachable input and output connectors |

For Additional Information, please visit
<https://product.tdk.com/info/en/products/power/index.html>

