



DPP120 & 240 Series

120W & 240W Single Output DIN Rail Mount Power Supplies

- Low Cost
- 12, 24 or 48V Outputs
- Wide Range AC Input
- Parallel Function Switch
- -40°C to +71°C Operation

Key Market Segments & Applications

| | |
|----------------------|------------------------------|
| Industrial Controls: | Motor Control Systems |
| Factory Automation: | Process Control, Automotive, |
| Test & Measurement: | Chemical Processing |
| | Burn in & Test, |
| | Instrumentation Measurement |

DPP120 & 240 Features and Benefits

Features

- PFC Compliant to EN61000-3-2
- UL508 Approvals
- TS35/7.5 or TS35/15 DIN Rail Mounting

Benefits

- Supports Global Use
- Easier System Configuration
- Easy System Integration

Specifications

| MODELS | | DPP120 | DPP240 |
|--------------------------------|-----|---|----------------|
| ITEMS | | | |
| AC Input Voltage range | VAC | 90 - 132/180-264VAC (auto select) | |
| Input Frequency | Hz | 47 - 63Hz | |
| Inrush Current (115 / 230VAC) | A | 24/48A | 30/60A |
| Power Factor | - | typ 0.7 at 230VAC input | |
| Input Current (115/230VAC) | A | 2.2/0.83A | 5.4/2.2A |
| Leakage Current | mA | 3.5mA | |
| Output Voltage | V | 12 , 24 or 48V | 24 or 48V |
| Output Voltage Accuracy | % | -0, +1% of Nominal | |
| Line Regulation | % | ±0.5% | |
| Load Regulation | % | ±1% Single Mode ±5% Parallel Mode | |
| Ripple and Noise (20MHz BW) | mV | <50mV | <100mV |
| Overcurrent Protection (Typ) | - | 120 - 145% | |
| Overvoltage Protection | V | 120 - 145% | |
| Hold Up Time (230VAC input) | ms | >30 ms | |
| Efficiency (typ) | % | 84 - 90% (see table) | |
| Parallel Operation (1) | - | Up to 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 (2) | - | -40°C to +71°C (Derate linearly 2.5% per °C from 61°C to 71°C) | |
| Storage Temperature | - | -40°C to +85°C | |
| Operating Humidity | - | 20 - 95% RH (non condensing) | |
| Cooling (3) | - | Convection | |
| Withstand Voltage | - | Input to Output 3kVAC for 1 min. | |
| Isolation Resistance | Ω | >100MΩ at 25°C & 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 | |
| Weight (Typ) | g | 920 | 1000 |
| Size (HxWxD) | mm | 125 x 63.5 x 123.6 | 125 x 83 x 126 |
| Case material | - | Metal | |
| Warranty | yrs | 3 | |

- Notes:** (1) For parallel operations a minimum 10% load is required - loading conditions 0.1Io min to 0.9Io max
 (2) DPP120 -35°C
 (3) Recommend 1° clearance on all sides

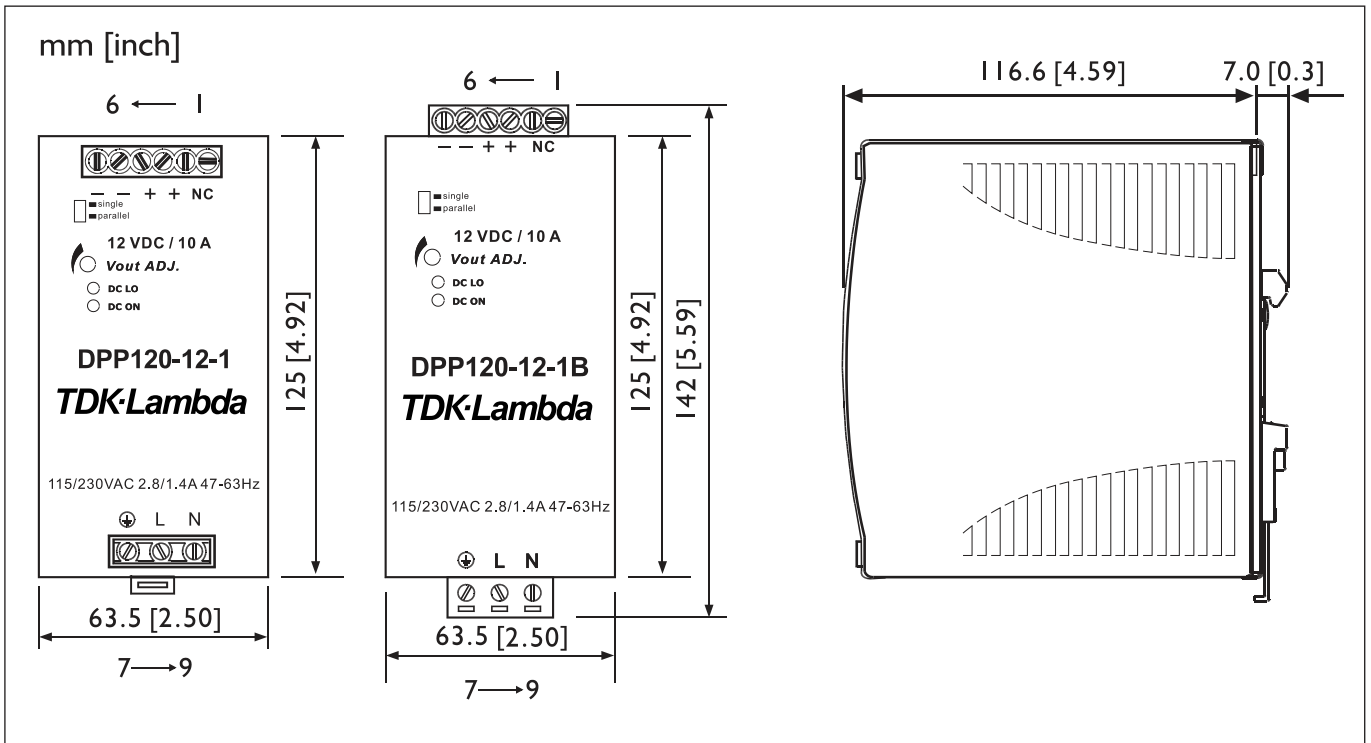
| Model Selector | | | | | |
|-----------------------|--------------------|---------------------------|--------------------|------------------|-----------------------|
| Model | Voltage (V) | Voltage Adjust (V) | Current (A) | Power (W) | Effic. (typ) % |
| DPP120-12 | 12 | 11.4 - 14.5 | 10 | 120 | 84 |
| DPP120-24 | 24 | 22.5 - 28.5 | 5 | 120 | 86 |
| DPP120-48 | 48 | 45 - 55 | 2.5 | 120 | 87 |
| DPP240-24 | 24 | 22.5 - 28.5 | 10 | 240 | 89 |
| DPP240-48 | 48 | 47 - 56 | 5 | 240 | 90 |

For plug type connectors add suffix 'B' to part number

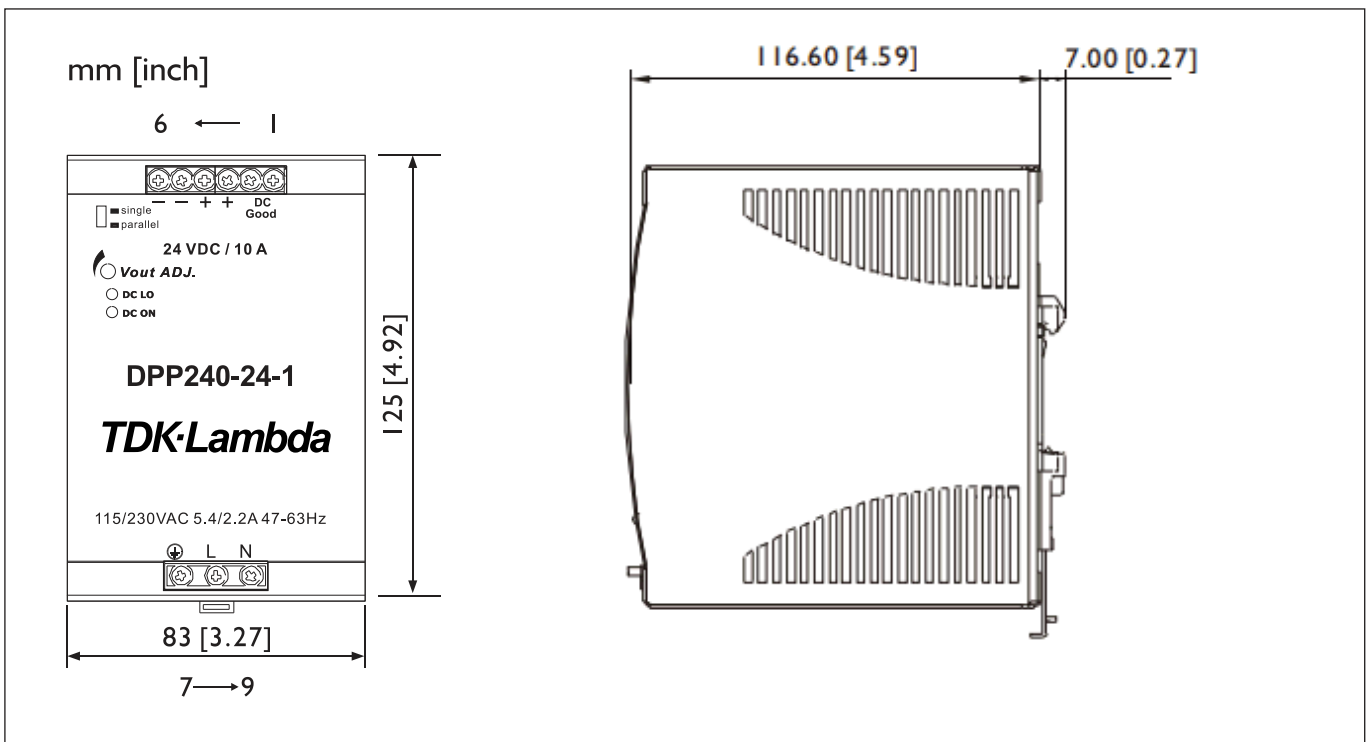
| PIN Assignments | |
|------------------------|-----------------|
| Pin# | Function |
| 1 | DC Good Relay |
| 2 | DC Good Relay |
| 3 | V+ |
| 4 | V+ |
| 5 | V- |
| 6 | V- |
| 7 | GND |
| 8 | L |
| 9 | N |

| Options | |
|----------------|-------------------------------------|
| Suffix | Description |
| Blank | Non detachable connector |
| B | Detachable input & output connector |

Outline Drawing DPP120



Outline Drawing DPP240





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