

75 to 240W, 24V Output DIN Rail Mount Power Supplies

Features

- ◆ UL508 Listed
- ◆ Conducted and Radiated EMI, Class B
- ◆ Input Transient Protection, IEC61000-4
- ◆ Semi F47 Compliant (DLP180 & 240 only)



Key Market Segments & Applications



Industrial



RoHS

Specifications

| Model | | DLP75-24-1/E | DLP100-24-1/E | DLP120-24-1/E | DLP180-24-1/E | DLP240-24-1/E |
|---------------------------------|-----|---|-------------------------------------|---------------|---|----------------|
| Output Voltage | V | 24 | 24 | 24 | 24 | 24 |
| Output Current | A | 3.1 | 4.1 | 5.0 | 7.5 | 10 |
| Output Power | W | 75 | 98.4 | 120 | 180 | 240 |
| Output Voltage Adjustment | V | 21.6 - 28 | | | | |
| Load Regulation | - | 192mV | | | | |
| Line Regulation | - | 120mV | | | | |
| Ripple/Noise (0-600C) | mV | 240 | | | | |
| AC Input Voltage & Frequency | - | 85-132/170-265VAC, 47-63Hz Auto select | | | 85-265VAC (47-63Hz) or 120-370VDC ⁽¹⁾ | |
| Input Current 100/230VAC | A | 1.7/0.8 | 2.3/1.2 | 2.4/1.3 | 2.3/1.0 | 3.0/1.3 |
| Efficiency 100/230VAC | % | 81/83 | 82/85 | 83/85 | 84/87 | 82/86 |
| Power Factor | - | Meets EN61000-3-2 (DLP180, 240: >0.95) | | | | |
| Inrush Current (Typ) 100/230VAC | A | 20/45 | | | | |
| Leakage Current | mA | Less than 0.75mA | | | | |
| Hold-up Time 100/230VAC | ms | 20/30 (Semi F47 Compliance, DLP 180 & 240 only) | | | | |
| Overcurrent Protection | - | >105%, Fold Back | >105%, Constant Current (/C2 3.75A) | | | |
| Overvoltage Protection | - | 30-35V, latching, cycle AC line to reset | | | | |
| LED Indicators | - | Green LED = DC ok Red LED = overcurrent | | | | |
| Operating Temperature (2) | °C | Convection cooled, -10°C to 60°C, derate linearly to 60% load from 50 to 60°C | | | | |
| Storage Temperature | °C | -30°C~+85°C | | | | |
| Humidity (Non-Condensing) | %RH | 30-90% operating 10-95% non operating | | | | |
| Withstand Voltage | - | Input - Ground 2kVAC, Input to Output 3kVAC, Output - Ground 500VAC | | | | |
| Vibration | - | 9.8m/s ² (1.0G) at DIN rail; (10-55Hz: 9.8m/s ² Constant, X,Y, Z each 1 hour) | | | | |
| Shock | - | 196m/s ² (20G) | | | | |
| Safety Agency Approvals | - | UL508, UL60950-1, CSA60950-1, EN60950-1, CE, EN50178 Cat III (Pri) | | | | |
| Conducted EMI | - | FCC-B, EN55011/EN55022-B, VCCI-B; Meets IEC61000-4-1 | | | | |
| Radiated EMI | - | EN55011/EN55022-B, FCC-Class B, VCCI-B | | | | |
| ESD | - | IEC61000-4-2 ±10kV (Air), ±5kV (Contact) | | | | |
| Radiated RFI | - | IEC61000-4-3 80-1000MHz, 12V/m 80% AM 1kHz | | | | |
| Fast Transient Burst | - | IEC61000-4-4 2.4kV 5kHz | | | | |
| Lightning Surge | - | IEC61000-4-5 4.4kV, 1.2x50µs (Common Mode) 2.4kV 1.2x50µs (Normal) | | | | |
| Conducted RFI | - | IEC61000-4-6 150kHz-80MHz, 12V, 80% AM 1kHz | | | | |
| Magnetic Field | - | IEC61000-4-8 36A/m | | | | |
| Voltage Dips | - | IEC61000-4-11 70% 10ms, 40% 100ms, 0% 5s | | | | |
| Size | mm | 50 x 97 x 110 | 60 x 97 x 110 | 60 x 97 x 110 | 80 x 97 x 110 | 120 x 97 x 110 |
| Weight | g | 470 | 540 | 540 | 780 | 1000 |
| Warranty | yrs | 3 Years | | | | |

(1) DC input is not safety approved

(2) DLP240-24-1/E, 170-265VAC: -10°C~+70°C, derated linearly to 60% load from 50° to 70°C.

Mouser Electronics

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