

- Universal AC input
- Low leakage current $\leq 0.75\text{mA}$
- Protections: Short circuit / Overload / Over voltage
- Fixed switching frequency at 65KHz
- Cooling by free air convection
- High reliability



| Model Number | Output Volts | Output Amps | Ripple & Noise | Line Reg | Load Reg | Efficiency | Volt Tolerance | Min Load |
|--------------------|--------------|-------------|----------------|-------------|-------------|------------|----------------|-------------|
| DUAL OUTPUT | | | | | | | | |
| PD-45A | 5 Volts(DC) | 3.2 Amps | 50mVpk-pk | $\pm 1.0\%$ | $\pm 3.0\%$ | 77% | $\pm 4.0\%$ | 0.4~5.0Amps |
| | 12 Volts(DC) | 2.0 Amps | 120mVpk-pk | $\pm 2.0\%$ | $\pm 4.0\%$ | 77% | $\pm 7.0\%$ | 0.2~2.5Amps |
| PD-45B | 5 Volts(DC) | 3.2 Amps | 50mVpk-pk | $\pm 1.0\%$ | $\pm 3.0\%$ | 78% | $\pm 4.0\%$ | 0.4~5.0Amps |
| | 24 Volts(DC) | 1.2 Amps | 150mVpk-pk | $\pm 2.0\%$ | $\pm 4.0\%$ | 78% | $\pm 7.0\%$ | 0.2~1.8Amps |

45W Dual Output Switching Power Supply

PD45 series

INPUT SPECIFICATIONS

| | |
|-----------------------------------|---|
| Input Voltage Range | 90-264VAC / 127-370 Volts(DC) |
| Frequency Range | 47-440Hz |
| Inrush Current, typ: (cold start) | 15 Amps/ 115VAC; 30Amps/230VAC |
| Input Current | 1.0 Amps max @115VAC 0.7 Amps max @ 230VAC |
| Leakage Current | < 0.75mAmps |

OUTPUT SPECIFICATIONS

| | |
|----------------------------|--|
| Voltage and Current | See Selection Chart |
| Line Regulation | See Selection Chart |
| Load Regulation | See Selection Chart |
| Voltage Tolerance (Note 2) | See Selection Chart |
| Ripple/Noise (Note 1) | See Selection Chart |
| Hold Up Time @ FL | 60mS @ FL |
| Setup, Rise Time @ FL | 800mS, 20mS @ FL |
| Over Voltage Protection | 5Volts(DC) only: 5.75~6.75Volts(DC) Hiccup mode, auto recover |
| Over Current Protection | 53~75W rated output power Hiccup mode, auto recover |
| DC Voltage Adjust | 4.75~5.5Volts(DC): 5Volts(DC) only |

GENERAL SPECIFICATIONS

| | |
|-----------------------|--|
| Safety | UL60950-1 TUV EN60950-1 Approved |
| Insulation Resistance | ≥ 100MΩ / 500Volts(DC) |
| EMI | Compliance to EN55022 (CISPR22) Class B |
| Harmonic Current | Compliance to EN61000-3-2,-3 |
| Efficiency | See Selection Chart |
| Isolation | 3000VAC Input - Output 1500VAC Input - Ground 500VAC Output - Ground |
| EMS | Compliance to EN61000-4-2,3,4,5,6,8,11 ENV50204, EN55024 light industry level, criteria A |

All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

ENVIRONMENTAL SPECIFICATIONS

| | |
|-------------------------|---|
| Oper. Temperature | -10°C to +60°C (See Derate Curve) |
| Storage Temperature | -20°C to +85°C, 10~95% RH |
| Relative Humidity | 20 to +90% RH |
| Temperature Coefficient | ±0.04% / °C (0-50°C) ON +5V output |
| MTBF | 288.1K Hrs min, MIL-HDBK-217F (25°C) |
| Vibration | 10~500Hz, 2G10min./1cycle, period for 60min. each along X, Y, Z axes |

PHYSICAL SPECIFICATIONS

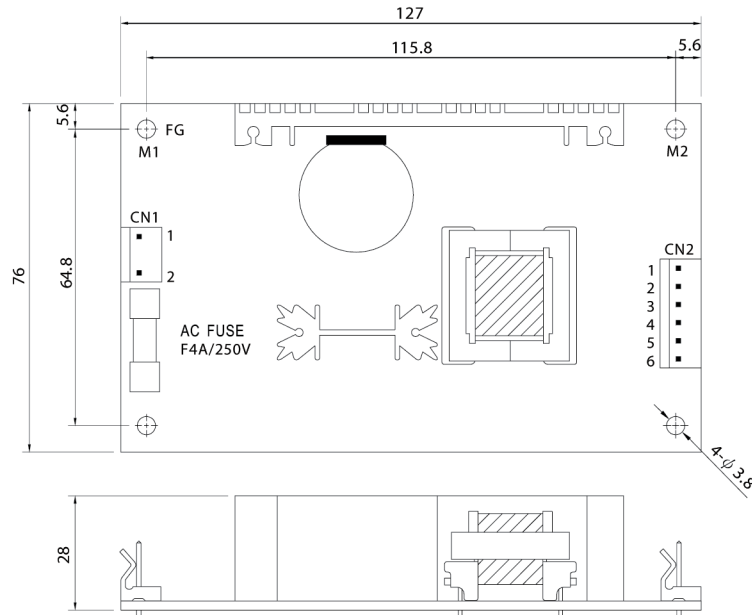
| | | |
|--------|-------------|--------------------|
| Size | Millimeters | 127 x 76 x 28 |
| | Inches | 5" x 2.99" x 1.10" |
| Weight | | 7.05 oz (200g) |

NOTE

1. Ripple and Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47 uf parallel capacitor.
2. Tolerance: includes set up tolerance, line regulation and load regulation.

Mechanical Specification

Unit:mm



AC Input Connector (CN1) : Molex 5277-02 or equivalent

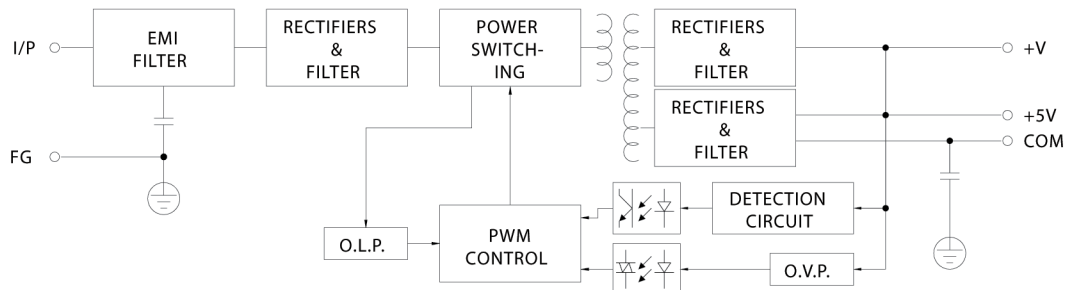
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|--------------------------|--------------------------|
| 1 | AC/N | Molex 5195 or equivalent | Molex 5194 or equivalent |
| 2 | AC/L | | |

DC Output Connector (CN2) : Molex 5273-06 or equivalent

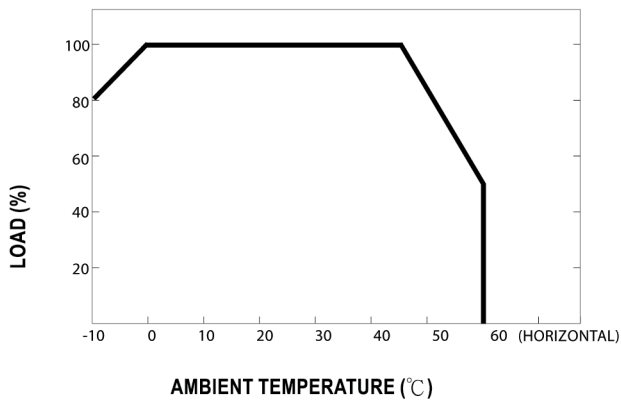
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|--------------------------|--------------------------|
| 1 | +V | Molex 5195 or equivalent | Molex 5194 or equivalent |
| 2,3 | +5V | | |
| 4,5 | COM | | |
| 6 | NC | | |

Block Diagram

fosc : 65KHz



■ Derating Curve



■ Static Characteristics (A)

