

- Universal AC input
- Protections: Short circuit/Over load/Over voltage/Over temperature
- Low leakage current <0.5mA
- Cooling by free air convection
- Low cost
- Fixed switching frequency at 100KHz
- High reliability



| Model Number | Output Volts | Output Amps | OVP | Min Load | DC Volt Adjust | Load Reg | Efficiency |
|----------------------|----------------|-------------|---------------------|-----------|-------------------|----------|------------|
| SINGLE OUTPUT | | | | | | | |
| PS25-3.3 | 3.3 Volts(DC) | 5 Amps | 3.8 ~ 4.46Volt(DC) | 0~5Amps | 3.14~3.63Volt(DC) | ±2.5% | 66% |
| PS25-5 | 5 Volts(DC) | 5 Amps | 5.75 ~ 6.75Volt(DC) | 0~5Amps | 4.75~5.5Volt(DC) | ±2.0% | 74% |
| PS25-7.5 | 7.5 Volts(DC) | 3.3 Amps | 8.6 ~ 10.1Volt(DC) | 0~3.3Amps | 6.0~9.0Volt(DC) | ±2.0% | 76% |
| PS25-12 | 12 Volts(DC) | 2.1 Amps | 13.8 ~ 16.2Volt(DC) | 0~2.1Amps | 10~13.2Volt(DC) | ±1.0% | 78% |
| PS25-13.5 | 13.5 Volts(DC) | 1.9 Amps | 15.5 ~ 18.2Volt(DC) | 0~1.9Amps | 12~15Volt(DC) | ±1.0% | 78% |
| PS25-15 | 15 Volts(DC) | 1.7 Amps | 17.3 ~ 20.3Volt(DC) | 0~1.7Amps | 13.5~18Volt(DC) | ±1.0% | 78% |
| PS25-24 | 24 Volts(DC) | 1.0 Amps | 27.6 ~ 32.4Volt(DC) | 0~1.0Amps | 20~26.4Volt(DC) | ±0.5% | 79% |
| PS25-27 | 27 Volts(DC) | 0.9 Amps | 31 ~ 36.5Volt(DC) | 0~0.9Amps | 26~31.5Volt(DC) | ±0.5% | 79% |
| PS25-48 | 48 Volts(DC) | 0.5 Amps | 55.2 ~ 64.8Volt(DC) | 0~0.5Amps | 41~56Volt(DC) | ±0.5% | 79% |

25W Single Output Switching Power Supply

PS25 series

INPUT SPECIFICATIONS

| | |
|-----------------------------------|------------------------------------|
| Input Voltage Range | 90 ~ 264VAC 120~370 Volts(DC) |
| Frequency Range | 47-63 Hz |
| Inrush Current, typ: (cold start) | 36 Amps |
| Input Current | 0.6 Amps@115VAC 0.4 Amps@230VAC |
| Leakage current | < 0.5mAmps / 240VAC |
| Min Load | See Selection Chart |

OUTPUT SPECIFICATIONS

| | |
|----------------------------|--|
| Voltage and Current | See Selection Chart |
| Line Regulation | ±0.5%: 3.3~7.5Volts(DC) ±0.3%: 12~15Volts(DC) ±0.2%: 24~48Volts(DC) |
| Load Regulation | See Selection Chart |
| Voltage Tolerance (Note 2) | 3.0%: 3.3Volts(DC) 2.0%: 5~48Volts(DC) |
| Ripple/Noise (Note 1) | 80mVpk-pk: 3.3~7.5Volts(DC) 100mVpk-pk: 12~15Volts(DC) 240mVpk-pk: 24~27Volts(DC) 350mVpk-pk: 48Volts(DC) |
| Hold Up Time @ FL | 100mS /230VAC 20mS /115VAC |
| Setup, Rise Time @ FL | 200mS, 20mS /230VAC 200mS, 30mS /115VAC |
| Over Voltage Protection | See Selection Chart Shut down o/p voltage, re-power |
| Over Current Protection | Above 105% rated output power Hiccup mode, auto recover |
| Over Temperature | Tj 135°C typ (U1) Detec on main control IC Shut down o/p voltage, auto recover after cool down |
| DC Voltage Adjust | See Selection Chart |

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 light Industry Level, Criteria A |

ENVIRONMENTAL SPECIFICATIONS

| | |
|-------------------------|---|
| Oper. Temperature | -10°C to +60°C (See Derate Curve) |
| Storage Temperature | -20°C to +85°C, 10~95% RH |
| Relative Humidity | 20~90% RH non cond |
| Temperature Coefficient | 0.03% / °C (0-50°C) |
| MTBF | 576.4Khrs min, MIL-HDBK-217F(25°C) |
| Vibration | 10~500Hz, 2G10min./1cycle, period for 60min. each along X, Y, Z axes |

PHYSICAL SPECIFICATIONS

| | |
|--------|---|
| Size | 107 x 61 x 28 mm (4.21"x 2.40 "x 1.10") |
| Weight | 4.94 oz (140g) |

NOTE

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

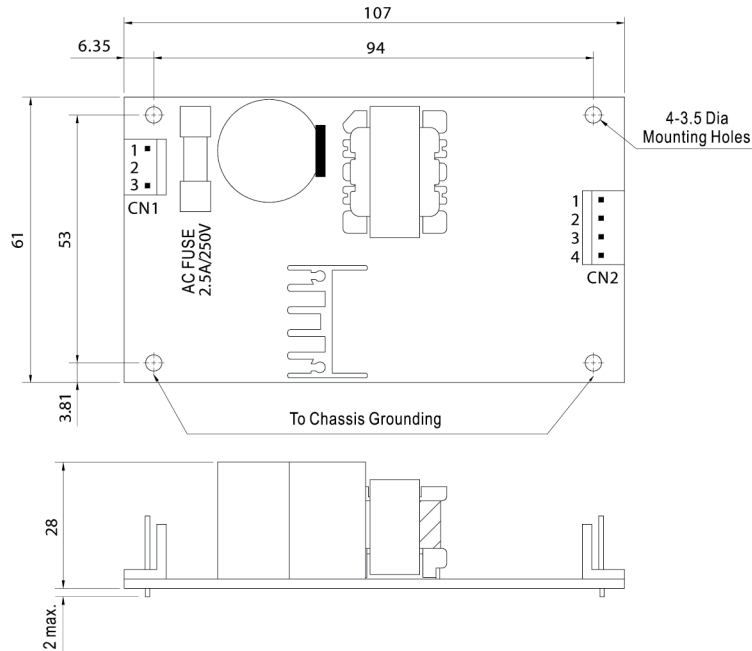
All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

25W Single Output Switching Power Supply

PS25 series

Mechanical Specification

Unit:mm



AC Input Connector (CN1) : Molex 41791-03 or equivalent

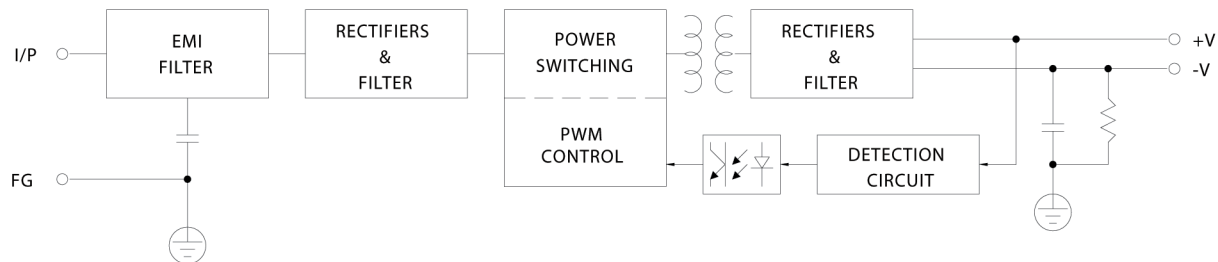
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|--------------------------|--------------------------|
| 1 | AC/L | Molex 2139 or equivalent | Molex 2478 or equivalent |
| 2 | No Pin | | |
| 3 | AC/N | | |

DC Output Connector (CN2) : Molex 41791-04 or equivalent

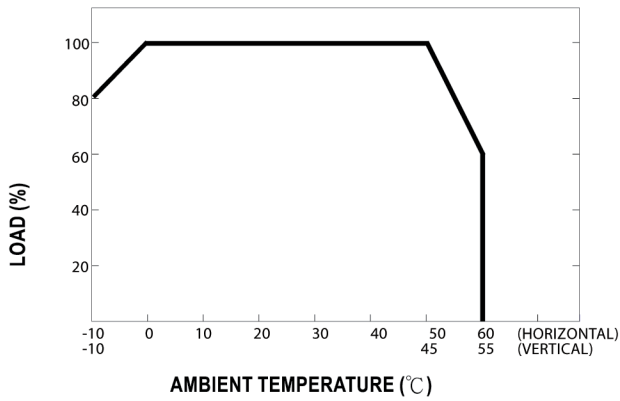
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|--------------------------|--------------------------|
| 1,2 | +V | Molex 2139 or equivalent | Molex 2478 or equivalent |
| 3,4 | -V | | |

Block Diagram

fosc : 100KHz



■ Derating Curve



■ Static Characteristics (24V)

