



- LED indicator for power on
- Protections: Short circuit / Overload / Over voltage
- All using 105°C long life electrolytic capacitors
- Cooling by free air convection
- High efficiency, long life and high reliability



| Model Number | Output Volts | Output Amps | Ripple & Noise | Line Reg | Load Reg | Efficiency | Volt Tolerance | Min Load |
|--------------|--------------|-------------|----------------|----------|----------|------------|----------------|----------|
|--------------|--------------|-------------|----------------|----------|----------|------------|----------------|----------|

Quad OUTPUT

| | | | | | | | | |
|---------|---------------|----------|------------|-------|-------|-----|---------|-------------|
| RQ125-B | 5 Volts(DC) | 11 Amps | 80mVpk-pk | ±0.5% | ±1.0% | 79% | ±2.0% | 2.0~12Amps |
| | 12 Volts(DC) | 4.5 Amps | 120mVpk-pk | ±1.0% | ±3.0% | 79% | +8,-3% | 0.5~4.5Amps |
| | -5 Volts(DC) | 1.0 Amps | 80mVpk-pk | ±1.0% | ±6.0% | 79% | +6,-10% | 0.1~1.0Amps |
| | -12Volts(DC) | 0.5 Amps | 80mVpk-pk | ±1.0% | ±2.0% | 79% | ±5.0% | 0~1.0Amps |
| RQ125-C | 5 Volts(DC) | 10 Amps | 80mVpk-pk | ±0.5% | ±1.0% | 80% | ±2.0% | 2.0~12Amps |
| | 15 Volts(DC) | 4.0 Amps | 120mVpk-pk | ±1.0% | ±3.0% | 80% | +8,-3% | 0.5~4.0Amps |
| | -5 Volts(DC) | 1.0 Amps | 80mVpk-pk | ±1.0% | ±6.0% | 80% | +6,-10% | 0.1~1.0Amps |
| | -15 Volts(DC) | 0.5 Amps | 80mVpk-pk | ±1.0% | ±2.0% | 80% | ±5.0% | 0~1.0Amps |
| RQ125-D | 5 Volts(DC) | 8.0Amps | 80mVpk-pk | ±0.5% | ±1.0% | 82% | ±2.0% | 2.0~12Amps |
| | 12 Volts(DC) | 2.5Amps | 120mVpk-pk | ±1.0% | ±3.0% | 82% | +8,-3% | 0.5~4.0Amps |
| | 24 Volts(DC) | 2.0Amps | 150mVpk-pk | ±1.0% | ±5.0% | 82% | +8.0% | 0.1~2.5Amps |
| | -12 Volts(DC) | 0.5 Amps | 80mVpk-pk | ±1.0% | ±2.0% | 82% | ±5.0% | 0~1.0Amps |



125W Quad Output Switching Power Supply

RQ125 series

INPUT SPECIFICATIONS

| | |
|-----------------------------------|---|
| Input Voltage Range | 90-132VAC /176~264VAC selected by switch, 248-373 Volts(DC) |
| Frequency Range | 47~63Hz |
| Inrush Current, typ: (cold start) | 40 Amps @ 230VAC |
| Input Current | 3.0Amps max @115VAC 2.0Amps max @230VAC |
| Leakage current | < 2.0mAmps / 240VAC |

OUTPUT SPECIFICATIONS

| | |
|----------------------------|--|
| Voltage and Current | See Selection Chart |
| Line Regulation (Note 3) | See Selection Chart |
| Load Regulation (Note 4) | See Selection Chart |
| Voltage Tolerance (Note 2) | See Selection Chart |
| Ripple/Noise (Note 1) | See Selection Chart |
| Hold Up Time @ FL | 25mS/230VAC, 30mS/115VAC |
| Setup, Rise Time @ FL | 500mS, 20mS/230VAC 1200mS, 30mS/115VAC |
| Over Voltage Protection | 5Volts(DC) only: 5.75~6.75Volts(DC) Hiccup mode, auto recover |
| Over Current Protection | 110~150% rated output power Hiccup mode, auto recover |
| DC Voltage Adjust | 5Volts(DC)only: 4.75~5.5Volts(DC) |

GENERAL SPECIFICATIONS

| | |
|-----------------------|--|
| Safety | UL60950-1 TUV EN60950-1 Approved |
| Insulation Resistance | ≥100MΩ/500Volts(DC)/25°C/70%RH |
| EMI | Compliance to EN55022B ((CISPR22B) |
| 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, EN61000-6-2(EN50082-2) heavy industry level, criteria A |
|-----|--|

ENVIRONMENTAL SPECIFICATIONS

| | |
|-------------------------|---|
| Oper. Temperature | -25°C to +70°C (See Derate Curve) |
| Storage Temperature | -40°C to +85°C, 10~95% RH |
| Relative Humidity | 20 to +90% RH non cond |
| Temperature Coefficient | ±0.03% / °C (0-50°C) on +5Volts output |
| MTBF | 203.1K Hrs min, MIL-HDBK-217F (25°C) |
| Vibration | 10~500Hz, 5G10min./1cycle, period for 60min. each along X, Y, Z axes |

PHYSICAL SPECIFICATIONS

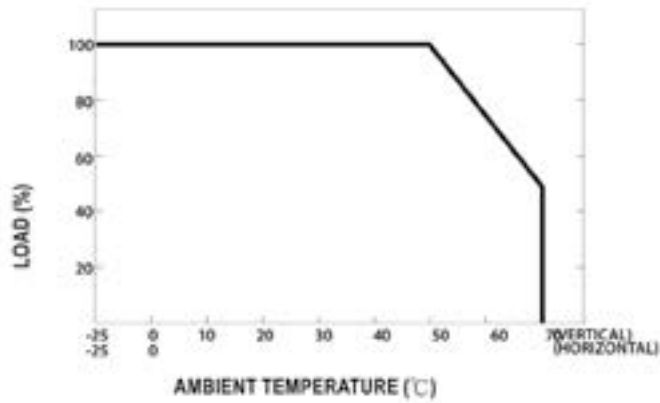
| | | |
|--------|-------------|-----------------------|
| Size | Millimeters | 199 x 98 x 38 |
| | Inches | 7.84" x 3.86" x 1.50" |
| Weight | | 24.69 oz (700g) |

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.
3. Line regulation is measured from low line to high line at rated load.
4. Load regulation is measured from 20% to 100% rated load, an other output at 60% rated load.

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

Derating Curve



Static Characteristics

