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■ Features :

- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- Approvals: UL / CUL / TUV / BSMI / CCC / CB / FCC / CE
- Class I power (with earth pin)
- LED indicator for power on
- No load power consumption<0.5W
- Meet EISA 2007(Energy Independence and Security Act)
- 2 years warranty

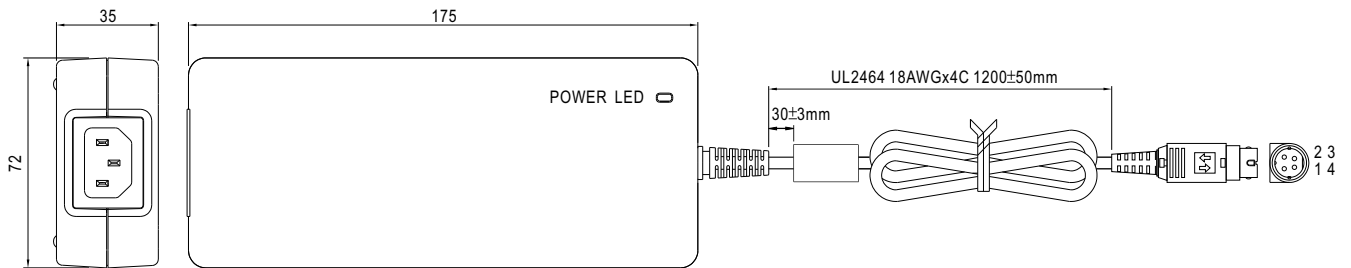


SPECIFICATION

| ORDER NO. | GS160A12-R7B | GS160A15-R7B | GS160A20-R7B | GS160A24-R7B | GS160A48-R7B | |
|------------------------|---|---|--------------|--------------|--------------|-----------|
| OUTPUT | SAFETY MODEL NO. | GS160A12 | GS160A15 | GS160A20 | GS160A24 | GS160A48 |
| | DC VOLTAGE | 12V | 15V | 20V | 24V | 48V |
| | RATED CURRENT | 11.5A | 9.6A | 8A | 6.67A | 3.34A |
| | CURRENT RANGE | 0 ~ 11.5A | 0 ~ 9.6A | 0 ~ 8A | 0 ~ 6.67A | 0 ~ 3.34A |
| | RATED POWER (max.) | 138W | 144W | 160W | 160W | 160W |
| | RIPPLE & NOISE (max.) Note.2 | 80mVp-p | 100mVp-p | 150mVp-p | 180mVp-p | 240mVp-p |
| | VOLTAGE TOLERANCE Note.3 | ±5.0% | ±5.0% | ±4.0% | ±3.0% | ±3.0% |
| | LINE REGULATION Note.4 | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% |
| | LOAD REGULATION | ±5.0% | ±5.0% | ±4.0% | ±3.0% | ±3.0% |
| | SETUP, RISE TIME Note.6 | 2000ms, 20ms / 230VAC 2500ms, 20ms / 115VAC at full load | | | | |
| HOLD UP TIME (Typ.) | 20ms / 230VAC 20ms / 115VAC at full load | | | | | |
| INPUT | VOLTAGE RANGE Note.7 | 85 ~ 264VAC 120 ~ 370VDC | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | |
| | POWER FACTOR (Typ.) | PF>0.95 / 230VAC PF>0.98 / 115VAC at full load | | | | |
| | EFFICIENCY (Typ.) | 89% | 90% | 92% | 92.5% | 94% |
| | AC CURRENT | 1.85A / 115VAC 1A / 230VAC | | | | |
| | INRUSH CURRENT (max.) | 120A / 230VAC | | | | |
| LEAKAGE CURRENT(max.) | 0.75mA / 240VAC | | | | | |
| PROTECTION | OVERLOAD | 105 ~ 135% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | |
| | OVER VOLTAGE | 105 ~ 135% rated output voltage Protection type : Shut down o/p voltage, re-power on to recover | | | | |
| | OVER TEMPERATURE | 90°C ±10°C (RTH2) detect on inside ambient temperature Protection type : Shut down o/p voltage, re-power on to recover | | | | |
| ENVIRONMENT | WORKING TEMP. | -30 ~ +70°C (Refer to "Derating Curve") | | | | |
| | WORKING HUMIDITY | 20% ~ 90% RH non-condensing | | | | |
| | STORAGE TEMP., HUMIDITY | -20 ~ +85°C, 10 ~ 95% RH | | | | |
| | TEMP. COEFFICIENT | ±0.03% / °C (0~50°C) | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | |
| SAFETY & EMC (Note. 5) | SAFETY STANDARDS | UL60950-1, TUV EN60950-1, BSMI CNS14336, CCC GB4943, J60950-1(except for 48V) approved | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P: 3KVAC | | | | |
| | ISOLATION RESISTANCE | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH | | | | |
| | EMC EMISSION | Compliance to EN55022(CISPR22) ,EN61204-3 class B, CNS13438 class B, GB9254-1 class B, EN61000-3-2,3, GB17625.1 | | | | |
| EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A | | | | | |
| OTHERS | MTBF | 290.3Khrs min. MIL-HDBK-217F(25°C) | | | | |
| | DIMENSION | 175*72*35mm (L*W*H) | | | | |
| | PACKING | 0.66Kg; 20pcs/ 14.2Kg/ 0.85CUFT | | | | |
| CONNECTOR | PLUG | See page 2 ; Other type available by customer requested | | | | |
| | CABLE | See page 2 ; Other type available by customer requested | | | | |
| NOTE | <p>1. All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.</p> <p>2. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.</p> <p>3. Tolerance: includes set up tolerance, line regulation, load regulation.</p> <p>4. Line regulation is measured from low line to high line at rated load.</p> <p>5. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</p> <p>6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.</p> <p>7. Derating may be needed under low input voltage. Please check the derating curve for more details.</p> | | | | | |

■ Mechanical Specification

Case No.997A Unit:mm



■ Plug Assignment

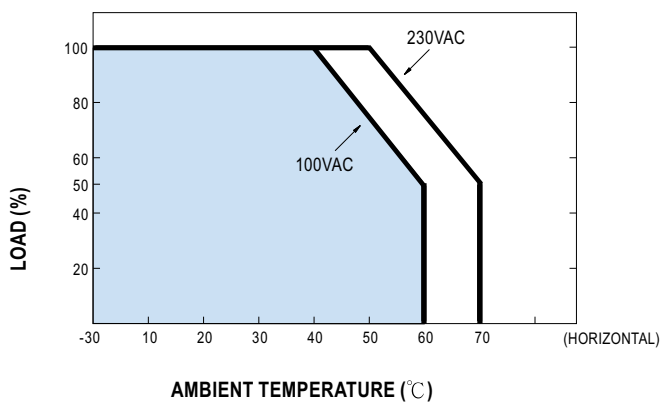
Standard plug: R7B

| R7B | | |
|---------|--------|--|
| PIN NO. | OUTPUT | |
| 1,4 | +V | |
| 2,3 | -V | |

AC FG

-V connected to AC FG

■ Derating Curve



■ Static Characteristics

