# 20~25W AC-DC Single Output Desktop

# GS25B series



## Features :

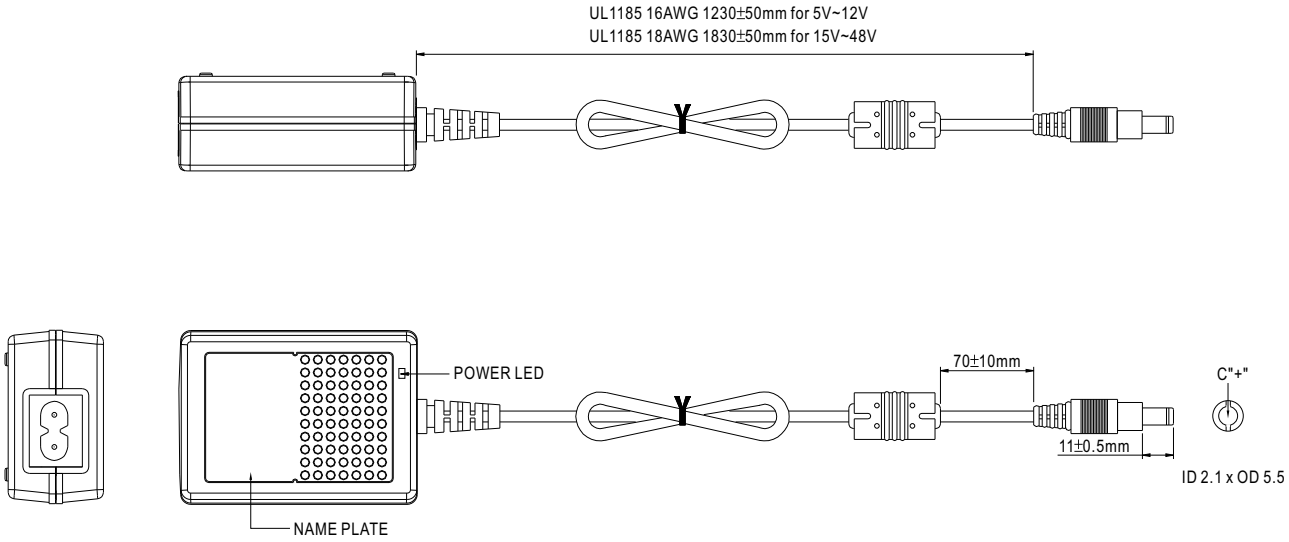
- Universal AC input / Full range
- No load power consumption<0.3W
- ErP step2 compliant
- Meet EISA 2007 (Energy Independence and Security Act)
- 2 pole AC Inlet IEC320-C8
- Class Ⅱ power (without earth pin)
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- LED indicator for power on
- Approvals: UL / CUL / TUV / BSMI / CCC / CB / FCC / CE
- Pass LPS
- 2 years warranty

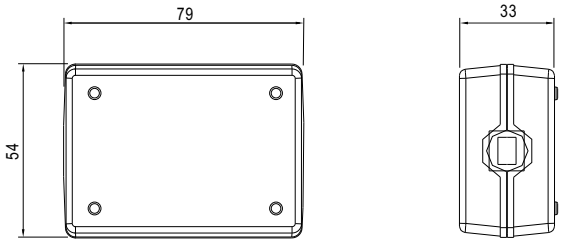
## SPECIFICATION

| ORDER NO. | | GS25B05-P1J | GS25B07-P1J | GS25B09-P1J | GS25B12-P1J | GS25B15-P1J | GS25B18-P1J | GS25B24-P1J | GS25B28-P1J | GS25B48-P1J |
|---|---|---|---|---|---|---|---|---|---|---|
| OUTPUT | SAFETY MODEL NO. | GS25B05 | GS25B07 | GS25B09 | GS25B12 | GS25B15 | GS25B18 | GS25B24 | GS25B28 | GS25B48 |
| | DC VOLTAGE Note.2 | 5V | 7.5V | 9V | 12V | 15V | 18V | 24V | 28V | 48V |
| | RATED CURRENT | 4.0A | 2.93A | 2.77A | 2.08A | 1.66A | 1.38A | 1.04A | 0.89A | 0.52A |
| | CURRENT RANGE | 0 ~ 4.0A | 0 ~ 2.93A | 0 ~ 2.77A | 0 ~ 2.08A | 0 ~ 1.66A | 0 ~ 1.38A | 0 ~ 1.04A | 0 ~ 0.89A | 0 ~ 0.52A |
| | RATED POWER (max.) | 20W | 22W | 25W | 25W | 25W | 25W | 25W | 25W | 25W |
| | RIPPLE & NOISE (max.) Note.3 | 50mVp-p | 80mVp-p | 80mVp-p | 80mVp-p | 100mVp-p | 150mVp-p | 180mVp-p | 240mVp-p | 240mVp-p |
| | VOLTAGE TOLERANCE Note.4 | ±5.0% | ±5.0% | ±5.0% | ±3.0% | ±3.0% | ±3.0% | ±2.0% | ±2.0% | ±2.0% |
| | LINE REGULATION Note.5 | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% |
| | LOAD REGULATION Note.6 | ±5.0% | ±5.0% | ±5.0% | ±3.0% | ±3.0% | ±3.0% | ±2.0% | ±2.0% | ±2.0% |
| | SETUP, RISE, HOLD UP TIME | 500ms, 20ms, 50ms/230VAC 500ms, 20ms, 15ms/115VAC at full load | | | | | | | | |
| INPUT | VOLTAGE RANGE | 90 ~ 264VAC 135 ~ 370VDC | | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | |
| | EFFICIENCY (Typ.) | 78.5% | 81.5% | 82.5% | 84.5% | 84.5% | 84.5% | 85.5% | 85.5% | 87% |
| | AC CURRENT | 0.7A/100VAC | | | | | | | | |
| | INRUSH CURRENT (max.) | 45A/230VAC | | | | | | | | |
| | LEAKAGE CURRENT(max.) | 0.25mA / 240VAC | | | | | | | | |
| PROTECTION | OVERLOAD | 110 ~ 150% rated output power | | | | | | | | |
| | | Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | |
| | OVER VOLTAGE | 105 ~ 135% rated output voltage | | | | | | | | |
| | | Protection type : Clamp by zener diode | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | 0 ~ +50℃ (Refer to "Derating Curve") | | | | | | | | |
| | WORKING HUMIDITY | 20% ~ 90% RH non-condensing | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -20 ~ +85℃, 10 ~ 95% RH | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03% / ℃ (0 ~ 50℃) | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | | | | |
| SAFETY & EMC (Note. 7) | SAFETY STANDARDS | UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943 approved | | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:4242VDC | | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P:100M Ohms / 500VDC / 25℃/ 70% RH | | | | | | | | |
| | EMC EMISSION | Compliance to EN55022, EN61000-3-2,3, FCC PART 15 / CISPR22 class B, CNS13438 class B, GB9254 | | | | | | | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A | | | | | | | | |
| OTHERS | MTBF | 500Khrs min. MIL-HDBK-217F(25℃) | | | | | | | | |
| | DIMENSION | 79*54*33mm (L*W*H) | | | | | | | | |
| | PACKING | 210g ; 60pcs / 13.5Kg / CARTON | | | | | | | | |
| CONNECTOR | PLUG | See page2 | | | | | | | | |
| | CABLE | See page2 | | | | | | | | |
| NOTE | 1.All parameters are specified at 230VAC input, rated load, 25℃ 70% RH ambient.<br>2.DC voltage: The output voltage set at point measure by plug terminal & 50% load.<br>3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.<br>4.Tolerance: includes set up tolerance, line regulation, load regulation.<br>5.Line regulation is measured from low line to high line at rated load.<br>6.Load regulation is measured from 20% to 100% rated load<br>7.The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. | | | | | | | | | |

## ■ Mechanical Specification

Unit:mm



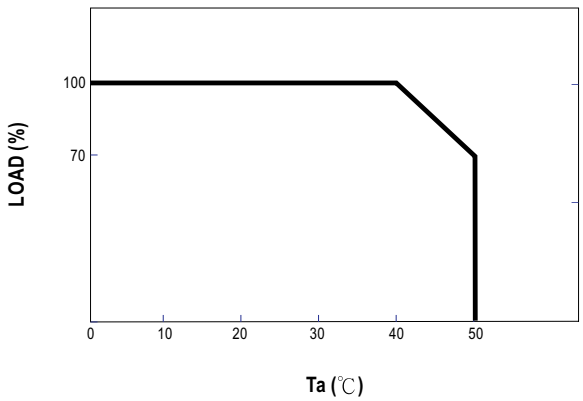




## ■ Plug Assignment

Standard plug: P1J

| P1J | |
|---|---|
| P/N | OUTPUT |
| CENTER | + |

## ■ Derating Curve




## ■ Static Characteristics

