**20~25WAC-DC Single Output Desktop**

**GS25A series**

- **Features:**
  - Universal AC input / Full range
  - No load power consumption <0.3W
  - ErP step2 compliant
  - Meet EISA 2007 (Energy Independence and Security Act)
  - 3 pole AC inlet IEC320-C14
  - Class I power (with earth pin)
  - Protections: Short circuit / Overload / Over voltage
  - Fully enclosed plastic case
  - LED indicator for power on
  - Approvals: UL / CUL / TUV / BSMI / CB / FCC / CE
  - Pass LPS
  - 2 years warranty

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**SPECIFICATION**

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<tbody>
<tr>
<td>CURRENT RANGE</td>
<td>0 ~ 4.0A, 0 ~ 2.93A, 0 ~ 2.77A, 0 ~ 2.08A, 0 ~ 1.66A, 0 ~ 1.38A, 0 ~ 1.04A, 0 ~ 0.89A</td>
<td>GS25A05</td>
<td>GS25A07</td>
<td>GS25A09</td>
<td>GS25A12</td>
<td>GS25A15</td>
<td>GS25A18</td>
<td>GS25A20</td>
<td>GS25A24</td>
<td>GS25A25</td>
<td>GS25A28</td>
<td>GS25A36</td>
<td>GS25A48</td>
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**INPUT**

- **VOLTAGE RANGE:** 90 ~ 264VAC 135 ~ 370VDC
- **FREQUENCY RANGE:** 47 ~ 63Hz
- **EFFICIENCY (Typ.):** 78.5% 81.5% 82.5% 84.5% 84.5% 85.5% 85.5% 87%
- **AC CURRENT:** 0.7A / 100VAC
- **INRUSH CURRENT (max.):** 45A / 230VAC
- **LEAKAGE CURRENT (max.):** 0.75mA / 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
- **WORKING TEMP.:** 0 ~ +65°C (Refer to output load derating curve)
- **WORKING HUMIDITY:** 20% ~ 90% RH non-condensing
- **TEMP. COEFFICIENT:** ±0.03% / °C (0~50°C)
- **VIBRATION:** 10 ~ 500Hz, 2G, 10min. / 1cycle, period for 60min. each along X, Y, Z axes

**ENVIRONMENT**

- **STORAGE TEMP., HUMIDITY:** -20 ~ +85°C, 10 ~ 95% RH
- **SAFETY STANDARDS:** UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336 approved

**SAFETY & EMC (Note. 7)**

- **WITHSTAND VOLTAGE:** I/P-OP:4242VDC, I/P-FG:2121VDC
- **ISOLATION RESISTANCE:** I/P-OP, I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH
- **EMI CONDUCTION & RADIATION:** Compliance to EN55022 class B, FCC PART 15 / CISPR22 class B, CNS13438 class B
- **HARMONIC CURRENT:** Compliance to EN61000-3-2, 3
- **EMS IMMUNITY:** Compliance to EN61000-4-2, 3, 4, 5, 6, 6.11, light industry level, criteria A

**OTHERS**

- **MTBF:** 500Khrs min. MIL-HDBK-217F(25°C)
- **DIMENSION:** 93/54x36mm (L/W/H)
- **PACKING:** 230g : 60pcs / 15kg / CARTON

**CONNECTOR**

- **PLUG:** See page 2
- **CABLE:** See page 2

**NOTE**

1. All parameters are specified at 230VAC input, rated load, 25°C, 70% RH ambient.
2. DC voltage: The output voltage set at point measure by plug terminal & 50% load.
3. Ripple & noise are measured at 20MHz by using a 12Ω twisted pair terminated with a 0.1uf & 47uf capacitor.
4. Tolerance: includes set up tolerance, line regulation, load regulation.
5. Line regulation is measured from low line to high line at rated load.
6. Load regulation is measured from 20% to 100% rated load.
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

UL 1185 16AWG 1230±50mm for 5V~12V
UL 1185 18AWG 1830±50mm for 15V~48V

### Plug Assignment

Standard plug: P1J (option)

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<tr>
<th>P/N</th>
<th>OUTPUT CENTER</th>
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<td>P1J</td>
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### Derating Curve

LOAD (%) vs. Ta (°C)

### Static Characteristics

LOAD (%) vs. INPUT VOLTAGE