



## 20~25W AC-DC Single Output Wall-mounted type

# GS25U series



### ■ Features :

- Universal AC input / Full range
- No load power consumption < 0.5W
- Pass energy star(CEC) level IV regulation
- 2 pole USA plug
- Class II power (without earth pin)
- Full output 5~48V safety approval
- Protections: Short circuit / Over load / Over voltage
- Fully enclosed plastic case
- LED indicator for power on
- Approvals: UL/ CUL / BSMI / CB / FCC / CE
- Pass LPS for 9~48V output
- 1 year warranty

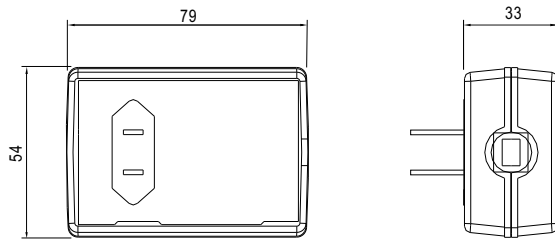
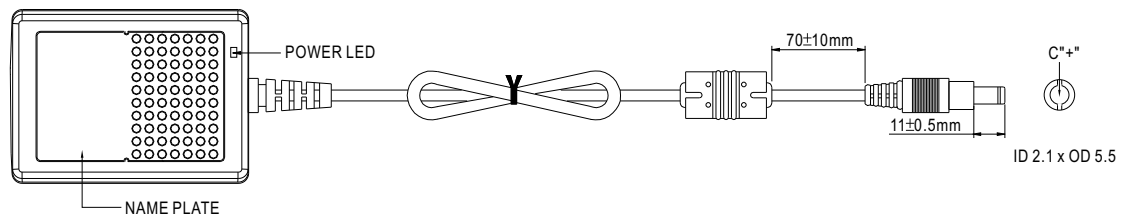
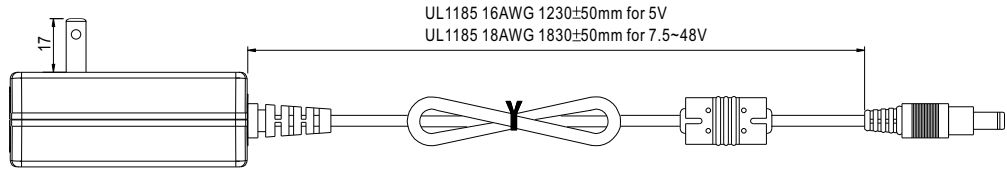


### SPECIFICATION

| ORDER NO.                     | GS25U05-P1J  | GS25U07-P1J   | GS25U09-P1J | GS25U12-P1J | GS25U15-P1J | GS25U18-P1J | GS25U24-P1J | GS25U28-P1J | GS25U48-P1J |           |
|-------------------------------|--|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|
| OUTPUT                        | <b>SAFETY MODEL NO.</b>  | GS25U05   | GS25U07     | GS25U09     | GS25U12     | GS25U15     | GS25U18     | GS25U24     | GS25U28     | GS25U48   |
|                               | <b>DC VOLTAGE</b> <small>Note.2</small>  | 5V  | 7.5V        | 9V          | 12V         | 15V         | 18V         | 24V         | 28V         | 48V       |
|                               | <b>RATED CURRENT</b>   | 4.0A  | 2.93A       | 2.77A       | 2.08A       | 1.66A       | 1.38A       | 1.04A       | 0.89A       | 0.52A     |
|                               | <b>CURRENT RANGE</b>   | 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 |
|                               | <b>RATED POWER (max.)</b>  | 20W   | 22W         | 25W         | 25W         | 25W         | 25W         | 25W         | 25W         | 25W       |
|                               | <b>RIPPLE &amp; NOISE (max.)</b> <small>Note.3</small>   | 50mVp-p   | 80mVp-p     | 80mVp-p     | 80mVp-p     | 100mVp-p    | 150mVp-p    | 180mVp-p    | 240mVp-p    | 240mVp-p  |
|                               | <b>VOLTAGE TOLERANCE</b> <small>Note.4</small>   | ±5.0%   | ±5.0%       | ±5.0%       | ±3.0%       | ±3.0%       | ±3.0%       | ±2.0%       | ±2.0%       | ±2.0%     |
|                               | <b>LINE REGULATION</b> <small>Note.5</small>   | ±1.0%   | ±1.0%       | ±1.0%       | ±1.0%       | ±1.0%       | ±1.0%       | ±1.0%       | ±1.0%       | ±1.0%     |
|                               | <b>LOAD REGULATION</b> <small>Note.6</small>   | ±5.0%   | ±5.0%       | ±5.0%       | ±3.0%       | ±3.0%       | ±3.0%       | ±2.0%       | ±2.0%       | ±2.0%     |
| <b>SETUP, RISE, HOLD TIME</b> | 500ms, 20ms, 50ms/230VAC      500ms, 20ms, 15ms/115VAC at full load  |   |             |             |             |             |             |             |             |           |
| INPUT                         | <b>VOLTAGE RANGE</b>   | 90 ~ 264VAC    135 ~ 370VDC   |             |             |             |             |             |             |             |           |
|                               | <b>FREQUENCY RANGE</b>   | 47 ~ 63Hz   |             |             |             |             |             |             |             |           |
|                               | <b>EFFICIENCY (Typ.)</b>   | 74%   | 78%         | 80%         | 81%         | 83%         | 83%         | 83%         | 85%         | 86%       |
|                               | <b>AC CURRENT</b>  | 0.7A / 100VAC   |             |             |             |             |             |             |             |           |
|                               | <b>INRUSH CURRENT (max.)</b>   | 25A / 115VAC  |             |             |             |             |             |             |             |           |
|                               | <b>LEAKAGE CURRENT(max.)</b>   | 0.25mA / 240VAC   |             |             |             |             |             |             |             |           |
| PROTECTION                    | <b>OVER LOAD</b>   | 110 ~ 150% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed         |             |             |             |             |             |             |             |           |
|                               | <b>OVER VOLTAGE</b>  | 105 ~ 135% rated output voltage<br>Protection type : Clamp by zener diode   |             |             |             |             |             |             |             |           |
|                               | <b>WORKING TEMP.</b>   | 0 ~ +50°C (Refer to output load derating curve)   |             |             |             |             |             |             |             |           |
| ENVIRONMENT                   | <b>WORKING HUMIDITY</b>  | 20% ~ 90% RH non-condensing   |             |             |             |             |             |             |             |           |
|                               | <b>STORAGE TEMP., HUMIDITY</b>   | -20 ~ +85°C, 10 ~ 95% RH  |             |             |             |             |             |             |             |           |
|                               | <b>TEMP. COEFFICIENT</b>   | ±0.03% / °C (0 ~ 50°C)  |             |             |             |             |             |             |             |           |
|                               | <b>VIBRATION</b>   | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes   |             |             |             |             |             |             |             |           |
| SAFETY & EMC (Note. 7)        | <b>SAFETY STANDARDS</b>  | UL60950-1, CSA C22.2, BSMI, CNS14336 Approved   |             |             |             |             |             |             |             |           |
|                               | <b>WITHSTAND VOLTAGE</b>   | I/P-O/P:3KVAC   |             |             |             |             |             |             |             |           |
|                               | <b>ISOLATION RESISTANCE</b>  | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH  |             |             |             |             |             |             |             |           |
|                               | <b>EMI CONDUCTION &amp; RADIATION</b>  | Compliance to EN55022 class B, FCC PART 15 / CISPR22 class B, CNS13438 class B  |             |             |             |             |             |             |             |           |
|                               | <b>HARMONIC CURRENT</b>  | Compliance to EN61000-3-2,3   |             |             |             |             |             |             |             |           |
| OTHERS                        | <b>EMS IMMUNITY</b>  | Compliance to EN61000-4-2,3,4,5,6,8,11, Light industry level, criteria A  |             |             |             |             |             |             |             |           |
|                               | <b>MTBF</b>  | 500Khrs min. MIL-HDBK-217F(25°C)  |             |             |             |             |             |             |             |           |
|                               | <b>DIMENSION</b>   | 79*54*33mm (L*W*H)  |             |             |             |             |             |             |             |           |
|                               | <b>PACKING</b>   | 210g ; 60pcs / 13.5kg / CARTON  |             |             |             |             |             |             |             |           |
| CONNECTOR                     | <b>PLUG</b>  | Standard type P1J: 2.1φ * 5.5φ * 11mm, tuning fork type, center positive for stock ; Other type available by customer requested |             |             |             |             |             |             |             |           |
|                               | <b>CABLE</b>   | Standard type UL1185 6ft (4FT only for 5V output) for stock ; Other type available by customer requested                        |             |             |             |             |             |             |             |           |
| NOTE                          | 1. All parameters are specified at 115VAC input, rated load, 25°C 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 a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. |   |             |             |             |             |             |             |             |           |

### Mechanical Specification

Unit:mm

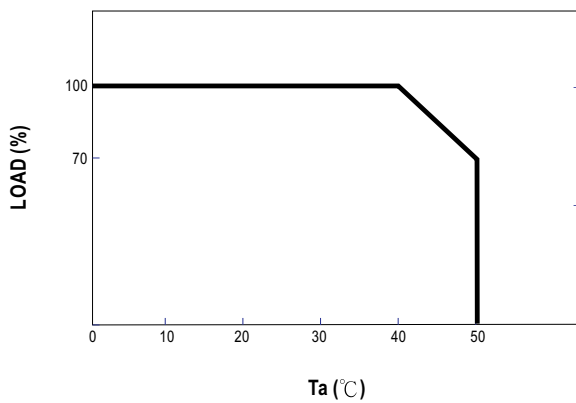


### Plug Assignment

Standard plug: P1J (option)

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

### Derating Curve



### Static Characteristics

