



## 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 / CCC / PSE / CB / FCC / CE
- Pass LPS
- 2 years warranty

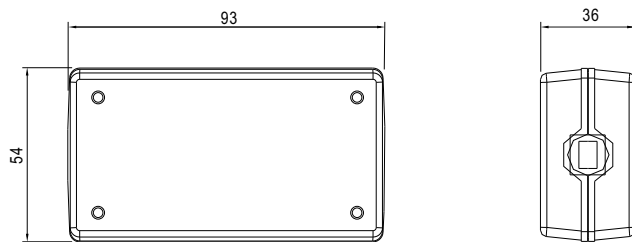
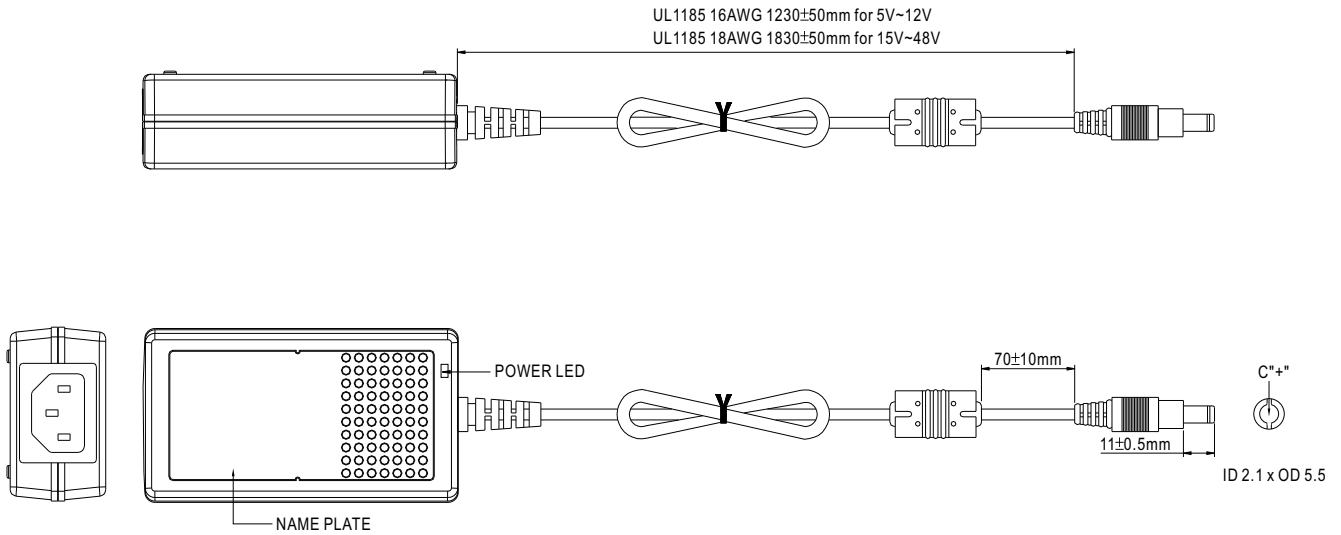


## SPECIFICATION

| ORDER NO.                 |                                             | GS18A05-P1J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | GS18A07-P1J | GS18A09-P1J | GS18A12-P1J | GS18A15-P1J | GS18A18-P1J | GS18A24-P1J | GS18A28-P1J | GS18A48-P1J |
|---------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| OUTPUT                    | SAFETY MODEL NO.                            | GS18A05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | GS18A07     | GS18A09     | GS18A12     | GS18A15     | GS18A18     | GS18A24     | GS18A28     | GS18A48     |
|                           | DC VOLTAGE <small>Note.2</small>            | 5V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7.5V        | 9V          | 12V         | 15V         | 18V         | 24V         | 28V         | 48V         |
|                           | RATED CURRENT                               | 3.0A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.0A        | 2.0A        | 1.50A       | 1.20A       | 1.0A        | 0.75A       | 0.64A       | 0.375A      |
|                           | CURRENT RANGE                               | 0 ~ 3.0A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0 ~ 2.0A    | 0 ~ 2.0A    | 0 ~ 1.50A   | 0 ~ 1.20A   | 0 ~ 1.0A    | 0 ~ 0.75A   | 0 ~ 0.64A   | 0 ~ 0.375A  |
|                           | RATED POWER (max.)                          | 15W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 15W         | 18W         | 18W         | 18W         | 18W         | 18W         | 18W         | 18W         |
|                           | RIPPLE & NOISE (max.) <small>Note.3</small> | 50mVp-p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 80mVp-p     | 80mVp-p     | 80mVp-p     | 100mVp-p    | 150mVp-p    | 180mVp-p    | 240mVp-p    | 240mVp-p    |
|                           | VOLTAGE TOLERANCE <small>Note.4</small>     | ±5.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ±5.0%       | ±5.0%       | ±3.0%       | ±3.0%       | ±3.0%       | ±2.0%       | ±2.0%       | ±2.0%       |
|                           | LINE REGULATION <small>Note.5</small>       | ±1.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ±1.0%       | ±1.0%       | ±1.0%       | ±1.0%       | ±1.0%       | ±1.0%       | ±1.0%       | ±1.0%       |
|                           | LOAD REGULATION <small>Note.6</small>       | ±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.)                           | 79.5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 82%         | 83%         | 85%         | 85%         | 85%         | 86%         | 86.5%       | 87%         |
|                           | AC CURRENT                                  | 0.5A / 100VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |             |             |             |             |             |             |             |
|                           | INRUSH CURRENT (max.)                       | 45A / 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |             |             |             |             |             |             |             |
| PROTECTION                | LEAKAGE CURRENT(max.)                       | 0.75mA / 240VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |             |             |             |             |             |             |             |
|                           | OVERLOAD                                    | 110 ~ 150% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |             |             |             |             |             |             |             |
|                           | OVER VOLTAGE                                | 105 ~ 135% rated output voltage<br>Protection type : Clamp by zener diode, output short                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |             |             |             |             |             |             |             |
| 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% / °C (0 ~ 50℃)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |             |             |             |             |             |             |             |
| SAFETY & EMC<br>(Note. 7) | VIBRATION                                   | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |             |             |             |             |             |             |             |
|                           | SAFETY STANDARDS                            | UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336, PSE J60950-1(5~28V only), CCC GB4943 approved                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |             |             |             |             |             |             |             |
|                           | WITHSTAND VOLTAGE                           | I/P-O/P:4242VDC, I/P-FG:2121VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |             |             |             |             |             |             |             |
|                           | ISOLATION RESISTANCE                        | I/P-O/P, I/P-FG: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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |             |             |             |             |             |             |             |
| OTHERS                    | EMC IMMUNITY                                | Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |             |             |             |             |             |             |             |
|                           | MTBF                                        | 500Khrs min. MIL-HDBK-217F(25℃)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |             |             |             |             |             |             |             |
|                           | DIMENSION                                   | 93*54*36mm (L*W*H)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |             |             |             |             |             |             |             |
| CONNECTOR                 | PACKING                                     | 230g ; 60pcs / 15kg / CARTON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |             |             |             |             |             |             |             |
|                           | PLUG                                        | See page2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |             |             |             |             |             |             |             |
| NOTE                      | CABLE                                       | See page2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |             |             |             |             |             |             |             |
|                           |                                             | 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

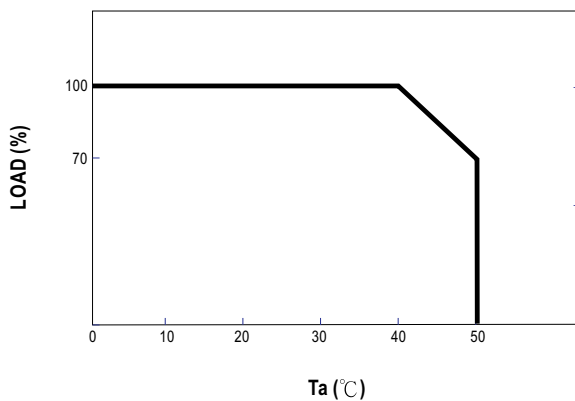


## Plug Assignment

Standard plug: P1J

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

## Derating Curve



## Static Characteristics

