# 7.2~15W AC-DC Single Output Wall-mounted type

# GS15U series

■ Features :

- Universal AC input / Full range
- 2 pole USA plug
- Class II power ( without earth pin)
- Full output 3~48V safety approval
- Protections: Short circuit / Over load / Over voltage
- No load power consumption <1.0W
- Pass LPS
- Fully enclosed plastic case
- UL/ CUL / CB / CE / FCC
- 1 year warranty

## SPECIFICATION

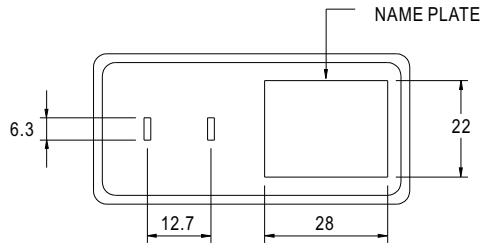
| ORDER NO. | | GS15U-0P1J | GS15U-1P1J | GS15U-11P1J | GS15U-2P1J | GS15U-3P1J | GS15U-4P1J | GS15U-5P1J | GS15U-6P1J | GS15U-8P1J |
|---|---|---|---|---|---|---|---|---|---|---|
| OUTPUT | SAFETY MODEL NO. | GPSU15U-0 | GPSU15U-1 | GPSU15U-1-1 | GPSU15U-2 | GPSU15U-3 | GPSU15U-4 | GPSU15U-5 | GPSU15U-6 | GPSU15U-8 |
| | DC VOLTAGE Note.2 | 3.3V | 5V | 7.5V | 9V | 12V | 15V | 18V | 24V | 48V |
| | RATED CURRENT | 2.18A | 2.40A | 1.60A | 1.66A | 1.25A | 1.00A | 0.83A | 0.62A | 0.31A |
| | CURRENT RANGE | 0 ~ 2.18A | 0 ~ 2.40A | 0 ~ 1.60A | 0 ~1.66A | 0 ~ 1.25A | 0 ~ 1.00A | 0 ~ 0.83A | 0 ~ 0.62A | 0 ~ 0.31A |
| | RATED POWER | 7.2W | 12W | 12W | 15W | 15W | 15W | 15W | 15W | 15W |
| | RIPPLE & NOISE (max.) Note.3 | 50mVp-p | 50mVp-p | 80mVp-p | 80mVp-p | 80mVp-p | 100mVp-p | 120mVp-p | 150mVp-p | 240mVp-p |
| | VOLTAGE ADJ. RANGE | 3~5V | 5~6V | 6~8V | 8~11V | 11~13V | 13~16V | 16~21V | 21~27V | 33~48V |
| | | Fixed | | | | | | | | |
| | VOLTAGE TOLERANCE Note.4 | ±5.0% | ±5.0% | ±5.0% | ±5.0% | ±3.0% | ±3.0% | ±3.0% | ±2.0% | ±2.0% |
| | LINE REGULATION Note.5 | ±1.0% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | LOAD REGULATION Note.6 | ±5.0% | ±5.0% | ±5.0% | ±5.0% | ±3.0% | ±3.0% | ±3.0% | ±2.0% | ±2.0% |
| | SETUP, RISE, HOLD TIME | 3000ms, 50ms, 16ms at full load | | | | | | | | |
| INPUT | VOLTAGE RANGE | 90 ~ 264VAC 135 ~ 370VDC | | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | |
| | EFFICIENCY (Typ.) Note.7 | 55% | 65% | 72% | 74% | 76% | 77% | 78% | 80% | 81% |
| | AC CURRENT | 0.5A / 100VAC | | | | | | | | |
| | INRUSH CURRENT (max.) | 40A / 230VAC | | | | | | | | |
| | LEAKAGE CURRENT(max.) | 0.25mA / 240VAC | | | | | | | | |
| PROTECTION | OVER LOAD | 115 ~ 250% rated output power | | | | | | | | |
| | | Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | |
| | OVER VOLTAGE | >120% rated output voltage | | | | | | | | |
| | | Protection type : Clamp by zener diode | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | 0 ~ +50℃(Refer to output load 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. 8) | SAFETY STANDARDS | UL60950-1, CSA22.2, EN60950-1 Approved | | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC | | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P:100M Ohms / 500VDC | | | | | | | | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55022 class B, FCC part 15 Class B | | | | | | | | |
| | HARMONIC CURRENT | Compliance to EN61000-3-2,3 | | | | | | | | |
| | EMS IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,11, Light industry level, criteria A | | | | | | | | |
| OTHERS | MTBF | 500Khrs min. MIL-HDBK-217F(25℃) | | | | | | | | |
| | DIMENSION | 34*71*50mm (L*W*H) | | | | | | | | |
| | PACKING | 150g ; 84pcs / 14Kg / CARTON | | | | | | | | |
| CONNECTOR | PLUG | Standard type P1J: 2.1$\phi$ * 5.5$\phi$ * 11mm, tuning fork type center positive for stock ; Other type available by customer requested | | | | | | | | |
| | CABLE | Standard type 18Awg UL1185 6ft and 5ft for 3.3V output only for stock ; Other type available by customer requested | | | | | | | | |

**NOTE**

1.All parameters are specified at 115VAC input, rated load, 25℃ 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 12" 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 0% to 100% rated load
7.Efficiency is measured at 115VAC.
8.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

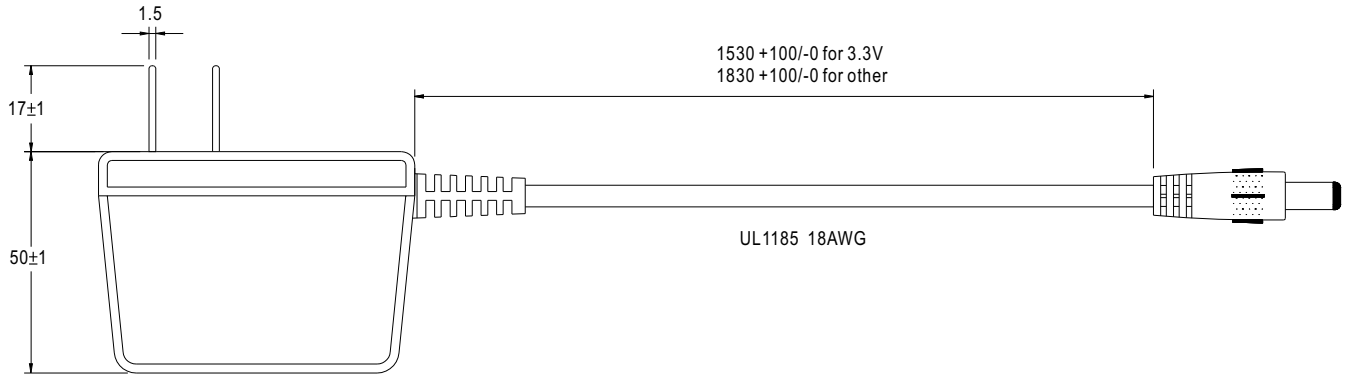
Unit:mm

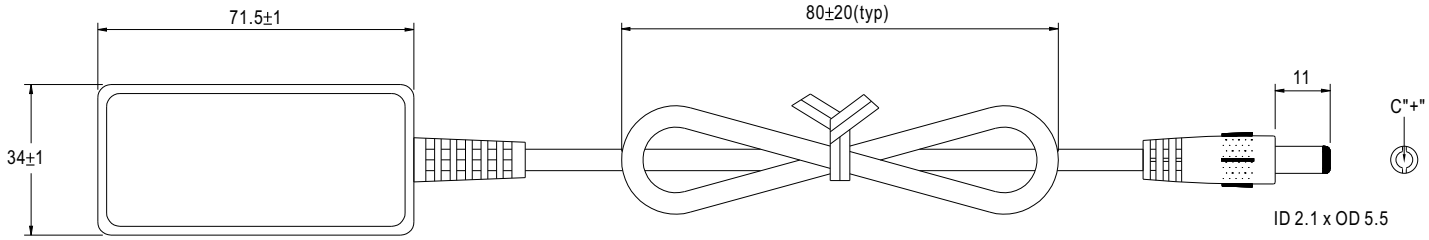



## ■ Plug Assignment

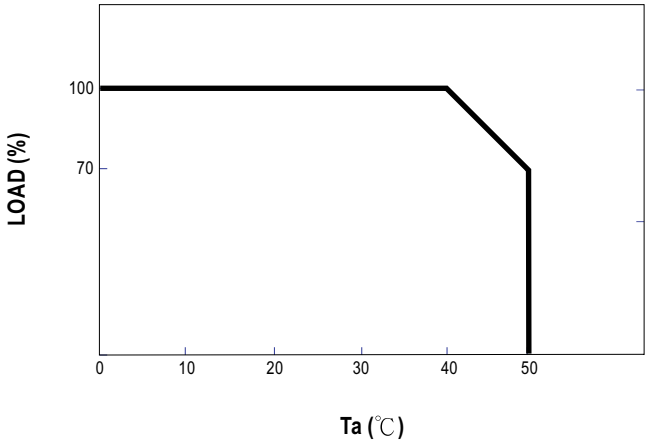
Standard plug: P1J (option)

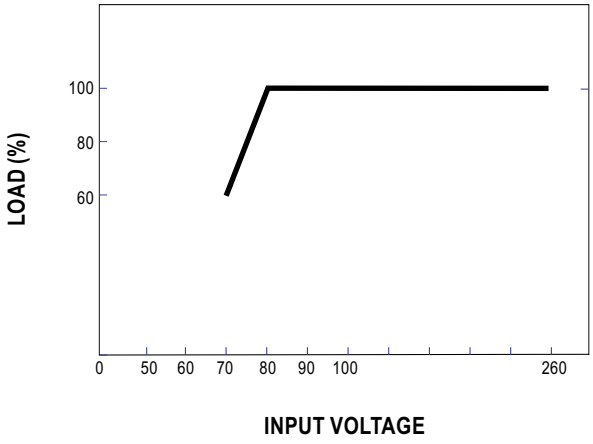
| P1J | |
|---|---|
| P/N | OUTPUT |
| CENTER | + |




## ■ Derating Curve




## ■ Static Characteristics