



#### Features :

- Universal AC input / Full range
- No load power consumption <0.5W
- Meet energy star level IV(CEC) for 5 ~ 48V
- Meet EISA 2007 (Energy Independence and Security Act) for 5 ~ 48V
- 3 pole AC inlet IEC320-C14
- Class I power ( with earth pin)
- Full output 3~48V safety approval
- Protections: Short circuit / Overload / Over voltage
- Pass LPS
- Fully enclosed plastic case
- Approvals: UL / CUL / TUV / CB / FCC / CE
- 2 years warranty

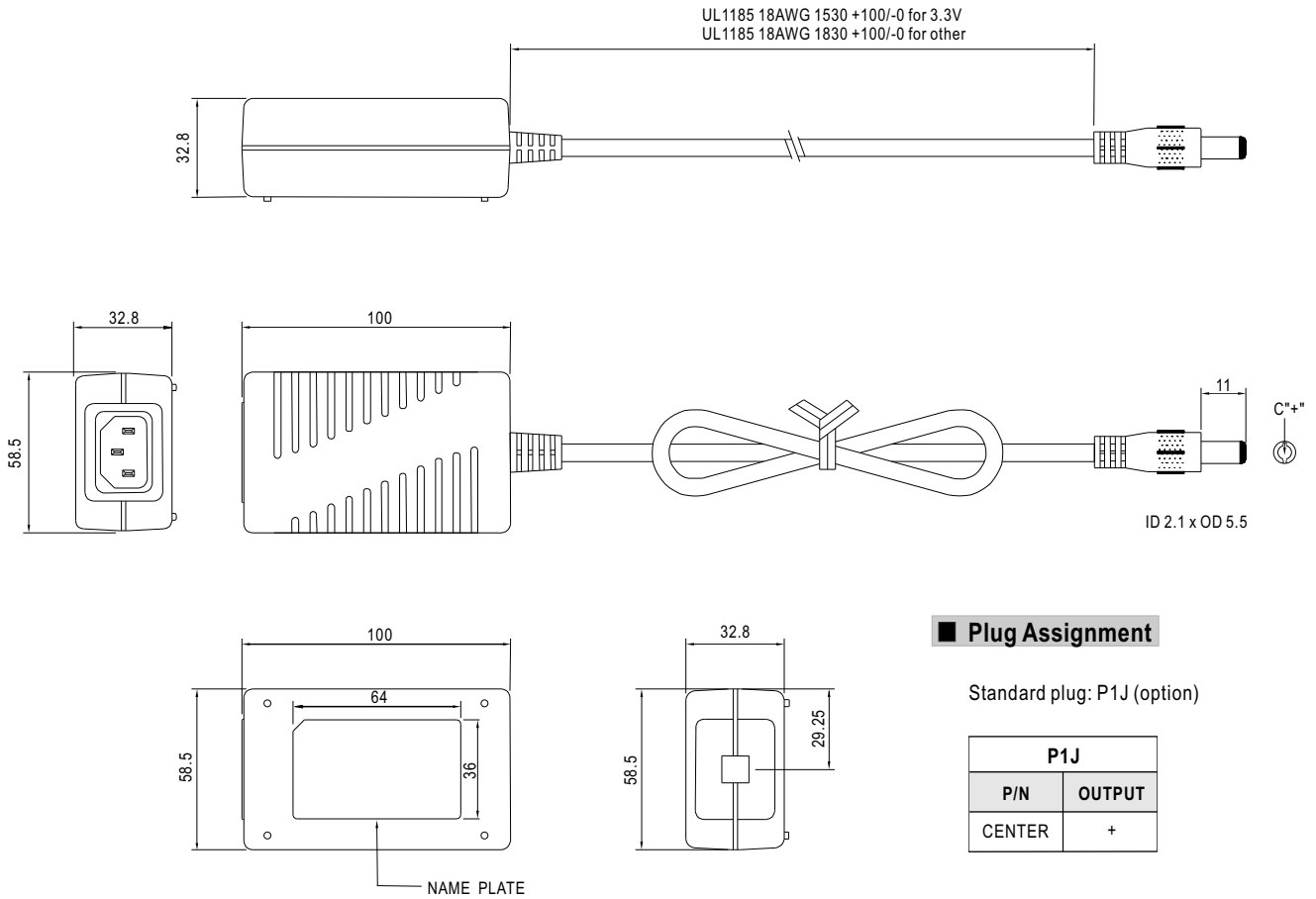


#### SPECIFICATION

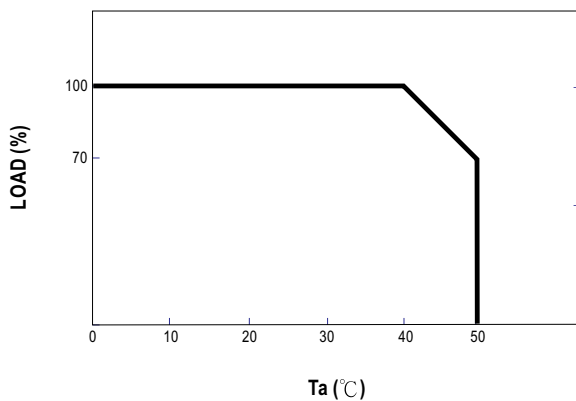
| ORDER NO.                 |                                             | GS15A-0P1J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | GS15A-1P1J | GS15A-11P1J | GS15A-2P1J | GS15A-3P1J | GS15A-4P1J | GS15A-5P1J | GS15A-6P1J | GS15A-8P1J |
|---------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|------------|------------|------------|------------|------------|------------|
| OUTPUT                    | SAFETY MODEL NO.                            | GPSU15A-0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | GPSU15A-1  | GPSU15A-1-1 | GPSU15A-2  | GPSU15A-3  | GPSU15A-4  | GPSU15A-5  | GPSU15A-6  | GPSU15A-8  |
|                           | DC VOLTAGE <small>Note.2</small>            | 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.) <small>Note.3</small> | 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   |
|                           | VOLTAGE TOLERANCE <small>Note.4</small>     | ±6.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ±5.0%      | ±5.0%       | ±5.0%      | ±3.0%      | ±3.0%      | ±3.0%      | ±2.0%      | ±2.0%      |
|                           | LINE REGULATION <small>Note.5</small>       | ±1.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ±0.5%      | ±0.5%       | ±0.5%      | ±0.5%      | ±0.5%      | ±0.5%      | ±0.5%      | ±0.5%      |
|                           | LOAD REGULATION <small>Note.6</small>       | ±6.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ±5.0%      | ±5.0%       | ±5.0%      | ±3.0%      | ±3.0%      | ±3.0%      | ±2.0%      | ±2.0%      |
| INPUT                     | SETUP, RISE, HOLD UP TIME                   | 3000ms, 50ms, 16ms at full load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |             |            |            |            |            |            |            |
|                           | VOLTAGE RANGE                               | 90 ~ 264VAC 135 ~ 370VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |             |            |            |            |            |            |            |
|                           | FREQUENCY RANGE                             | 47 ~ 63Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |             |            |            |            |            |            |            |
|                           | EFFICIENCY (Typ.) <small>Note.7</small>     | 55%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 65%        | 72%         | 74%        | 76%        | 77%        | 78%        | 80%        | 81%        |
|                           | AC CURRENT                                  | 0.5A / 100VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |             |            |            |            |            |            |            |
|                           | INRUSH CURRENT (max.)                       | 50A / 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |             |            |            |            |            |            |            |
| PROTECTION                | LEAKAGE CURRENT(max.)                       | 0.25mA / 240VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |             |            |            |            |            |            |            |
|                           | OVERLOAD                                    | 115 ~ 250% rated output power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |             |            |            |            |            |            |            |
|                           | OVER VOLTAGE                                | >120% rated output voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |             |            |            |            |            |            |            |
| ENVIRONMENT               | WORKING TEMP.                               | 0 ~ +50°C (Refer to output load derating curve)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |             |            |            |            |            |            |            |
|                           | WORKING HUMIDITY                            | 20% ~ 90% RH non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |             |            |            |            |            |            |            |
|                           | STORAGE TEMP., HUMIDITY                     | -20 ~ +85°C, 10 ~ 95% RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |             |            |            |            |            |            |            |
|                           | TEMP. COEFFICIENT                           | ±0.03% / °C (0 ~ 50°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |            |            |            |            |            |            |
|                           | VIBRATION                                   | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |             |            |            |            |            |            |            |
| SAFETY & EMC<br>(Note. 8) | SAFETY STANDARDS                            | UL60950-1, CSA22.2, EN60950-1 approved                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |            |            |            |            |            |            |
|                           | WITHSTAND VOLTAGE                           | I/P-O/P:3KVAC, I/P-FG:1.5KVAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |             |            |            |            |            |            |            |
|                           | ISOLATION RESISTANCE                        | I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |             |            |            |            |            |            |            |
|                           | EMI CONDUCTION & RADIATION                  | Compliance to EN55022 class B, FCC part 15 Class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |             |            |            |            |            |            |            |
|                           | HARMONIC CURRENT                            | Compliance to EN61000-3-2,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |             |            |            |            |            |            |            |
| OTHERS                    | EMS IMMUNITY                                | Compliance to EN61000-4-2,3,4,5,6,11, light industry level, criteria A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |            |            |            |            |            |            |
|                           | MTBF                                        | 500Khrs min. MIL-HDBK-217F(25°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |             |            |            |            |            |            |            |
|                           | DIMENSION                                   | 100*58.5*32.8mm (L*W*H)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |             |            |            |            |            |            |            |
| CONNECTOR                 | PACKING                                     | 190g / 90pcs / 18Kg / CARTON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |             |            |            |            |            |            |            |
|                           | PLUG                                        | Standard type P1J: 2.1φ * 5.5φ * 11mm, tuning fork type center positive for stock ; Other type available by customer requested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |             |            |            |            |            |            |            |
| NOTE                      | CABLE                                       | Standard type 18Awg UL1185 6ft and 5ft for 3.3V output only for stock ; Other type available by customer requested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |             |            |            |            |            |            |            |
|                           |                                             | 1.All parameters are specified at 230VAC 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 0% to 100% rated load<br>7.Efficiency is measured at 230VAC.<br>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



## Derating Curve



## Static Characteristics

