



### ■ Features :

- Universal AC input / Full range
- No load power consumption<0.3W
- Pass energy star (CEC) level IV for full series
- Meet energy star (CEC) level V for full series
- 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 / CB / FCC / CE
- Pass LPS for full series
- 2 years warranty

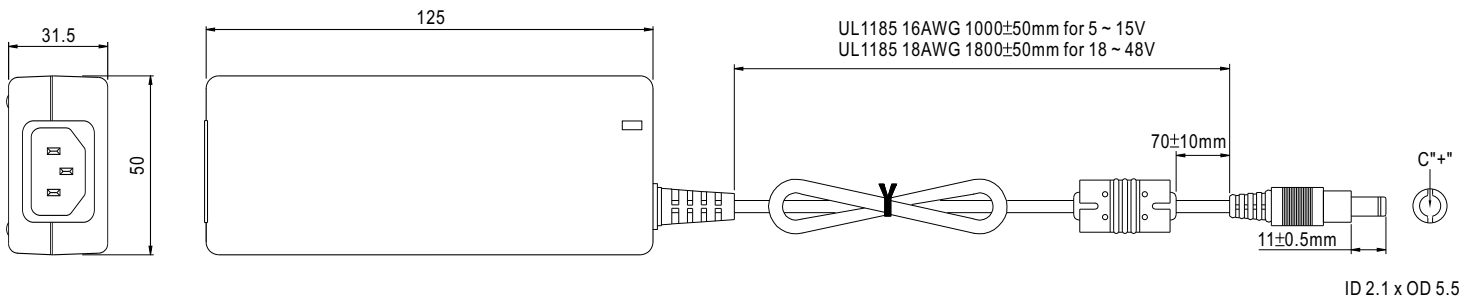


### SPECIFICATION

| ORDER NO.                 |   | GS40A05-P1J  | GS40A07-P1J | GS40A09-P1J | GS40A12-P1J | GS40A15-P1J | GS40A18-P1J | GS40A24-P1J | GS40A48-P1J |
|---------------------------|---|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| OUTPUT                    | SAFETY MODEL NO.                            | GS40A05  | GS40A07     | GS40A09     | GS40A12     | GS40A15     | GS40A18     | GS40A24     | GS40A48     |
|                           | DC VOLTAGE <small>Note.2</small>            | 5V   | 7.5V        | 9V          | 12V         | 15V         | 18V         | 24V         | 48V         |
|                           | RATED CURRENT                               | 5A   | 5.34A       | 4.45A       | 3.34A       | 2.67A       | 2.22A       | 1.67A       | 0.84A       |
|                           | CURRENT RANGE                               | 0 ~ 5A   | 0 ~ 5.34A   | 0 ~ 4.45A   | 0 ~ 3.34A   | 0 ~ 2.67A   | 0 ~ 2.22A   | 0 ~ 1.67A   | 0 ~ 0.84A   |
|                           | RATED POWER (max.)                          | 25W  | 40W         | 40W         | 40W         | 40W         | 40W         | 40W         | 40W         |
|                           | RIPPLE & NOISE (max.) <small>Note.3</small> | 100mVp-p   | 100mVp-p    | 100mVp-p    | 100mVp-p    | 100mVp-p    | 150mVp-p    | 180mVp-p    | 240mVp-p    |
|                           | VOLTAGE TOLERANCE <small>Note.4</small>     | ±5.0%  | ±5.0%       | ±5.0%       | ±3.0%       | ±3.0%       | ±3.0%       | ±2.5%       | ±2.5%       |
|                           | LINE REGULATION <small>Note.5</small>       | ±1.0%  | ±1.0%       | ±1.0%       | ±1.0%       | ±1.0%       | ±1.0%       | ±1.0%       | ±1.0%       |
|                           | LOAD REGULATION                             | ±5.0%  | ±5.0%       | ±5.0%       | ±3.0%       | ±3.0%       | ±3.0%       | ±2.5%       | ±2.5%       |
|                           | SETUP, RISE TIME <small>Note.7</small>      | 600ms, 30ms / 230VAC      600ms, 30ms / 115VAC at full load  |             |             |             |             |             |             |             |
|                           | HOLD UP TIME (Typ.)                         | 50ms / 230VAC      15ms / 115VAC at full load  |             |             |             |             |             |             |             |
| INPUT                     | VOLTAGE RANGE                               | 90 ~ 264VAC    135 ~ 370VDC  |             |             |             |             |             |             |             |
|                           | FREQUENCY RANGE                             | 47 ~ 63Hz  |             |             |             |             |             |             |             |
|                           | EFFICIENCY (Typ.)                           | 80.5%  | 85.5%       | 85%         | 89%         | 89.5%       | 90%         | 91%         | 92%         |
|                           | AC CURRENT                                  | 1A / 115VAC      0.5A / 230VAC   |             |             |             |             |             |             |             |
|                           | INRUSH CURRENT (max.)                       | 65A / 230VAC   |             |             |             |             |             |             |             |
|                           | LEAKAGE CURRENT(max.)                       | 0.75mA / 240VAC  |             |             |             |             |             |             |             |
| PROTECTION                | OVERLOAD                                    | 105 ~ 150% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed  |             |             |             |             |             |             |             |
|                           | OVER VOLTAGE                                | 5.25 ~ 6.75V    7.88 ~ 10.13V    9.45 ~ 12.15V    12.6 ~ 16.2V    15.75 ~ 20.25V    18.9 ~ 24.3V    25.2 ~ 32.4V    50.4 ~ 64.8V<br>Protection type : Shut down o/p voltage, re-power on to recover  |             |             |             |             |             |             |             |
|                           |   |  |             |             |             |             |             |             |             |
| ENVIRONMENT               | WORKING TEMP.                               | 0 ~ +60℃ (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% / °C (0~50℃)  |             |             |             |             |             |             |             |
|                           | VIBRATION                                   | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes  |             |             |             |             |             |             |             |
| SAFETY & EMC<br>(Note. 6) | SAFETY STANDARDS                            | UL60950-1, TUV EN60950-1, BSMI CNS14336, CCC GB4943 approved   |             |             |             |             |             |             |             |
|                           | WITHSTAND VOLTAGE                           | I/P-O/P:3KVAC    I/P-FG:1.5KVAC    O/P-FG:0.5KVAC  |             |             |             |             |             |             |             |
|                           | ISOLATION RESISTANCE                        | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH  |             |             |             |             |             |             |             |
|                           | EMI CONDUCTION & RADIATION                  | Compliance to EN55022 class B, FCC PART 15 / CISPR22 class B, CNS13438 class B, GB9254 class B   |             |             |             |             |             |             |             |
|                           | HARMONIC CURRENT                            | Compliance to EN61000-3-2,3, GB17625.1   |             |             |             |             |             |             |             |
|                           | EMS IMMUNITY                                | Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A   |             |             |             |             |             |             |             |
| OTHERS                    | MTBF  | 711Khrs min. MIL-HDBK-217F(25℃)  |             |             |             |             |             |             |             |
|                           | DIMENSION                                   | 125*50*31.5mm (L*W*H)  |             |             |             |             |             |             |             |
|                           | PACKING                                     | 0.31Kg; 40pcs/13.4Kg/0.91CUFT  |             |             |             |             |             |             |             |
| CONNECTOR                 | PLUG  | Standard type P1J: 2.1φ * 5.5φ * 11mm, tuning fork type, center positive for stock ; Other type available by customer requested  |             |             |             |             |             |             |             |
|                           | CABLE                                       | See page 2 ; Other type available by customer requested  |             |             |             |             |             |             |             |
| NOTE                      |   | 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. 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.<br>7. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. |             |             |             |             |             |             |             |

## Mechanical Specification

Case No. 974A Unit:mm

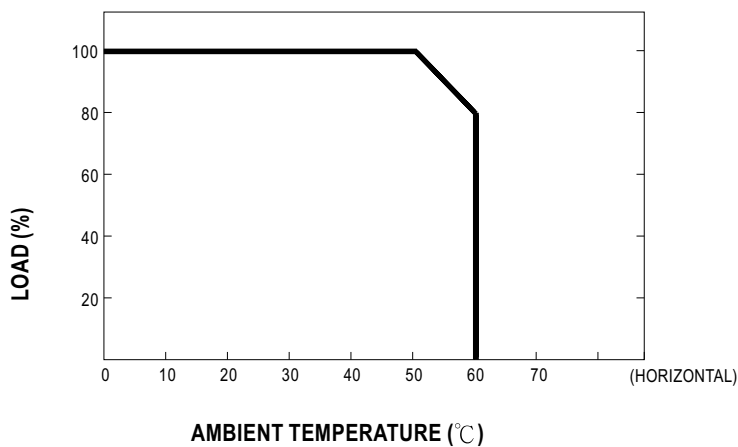


## Plug Assignment

Standard plug: P1J (option)

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

## Derating Curve



## Static Characteristics

