



■ Features :

- Universal AC input / Full range
- 2 pole AC inlet IEC320-C8
- High efficiency up to 88%
- Low leakage current <50 $\mu$ A
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- Medical safety approved (2  $\times$  MOPP between primary to secondary)
- Class II power (without earth pin)
- LED indicator for power on
- No load power consumption<0.1W
- ErP step2 compliant (level V)
- Meet EISA 2007 (Energy Independence and Security Act)
- Optional lock type DC plug
- 3 years warranty

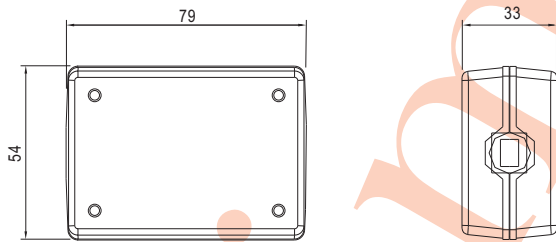
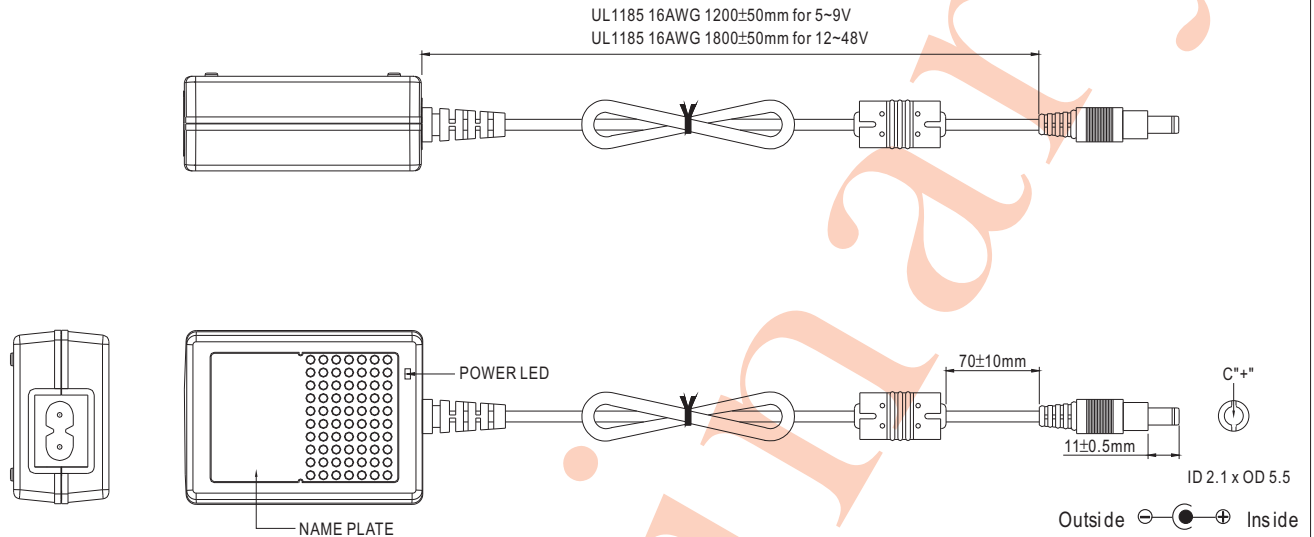


SPECIFICATION

| ORDER NO.              | GSM36B05-P1J  | GSM36B07-P1J   | GSM36B09-P1J | GSM36B12-P1J | GSM36B15-P1J | GSM36B18-P1J | GSM36B24-P1J | GSM36B48-P1J |             |  |
|------------------------|---|--|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--|
| OUTPUT                 | SAFETY MODEL NO.  | GSM36B05   | GSM36B07     | GSM36B09     | GSM36B12     | GSM36B15     | GSM36B18     | GSM36B24     | GSM36B48    |  |
|                        | DC VOLTAGE <span style="float:right">Note.2</span>  | 5V   | 7.5V         | 9V           | 12V          | 15V          | 18V          | 24V          | 48V         |  |
|                        | RATED CURRENT   | 4.5A   | 4.32A        | 4A           | 3A           | 2.4A         | 2A           | 1.5A         | 0.75A       |  |
|                        | CURRENT RANGE   | 0 ~ 4.5A   | 0 ~ 4.32A    | 0 ~ 4A       | 0 ~ 3A       | 0 ~ 2.4A     | 0 ~ 2A       | 0 ~ 1.5A     | 0 ~ 0.75A   |  |
|                        | RATED POWER (max.)  | 22.5W  | 32.4W        | 36W          | 36W          | 36W          | 36W          | 36W          | 36W         |  |
|                        | RIPPLE & NOISE (max.) <span style="float:right">Note.3</span>   | 60mVp-p  | 80mVp-p      | 80mVp-p      | 120mVp-p     | 120mVp-p     | 150mVp-p     | 180mVp-p     | 240mVp-p    |  |
|                        | VOLTAGE TOLERANCE <span style="float:right">Note.4</span>   | $\pm 5.0\%$  | $\pm 5.0\%$  | $\pm 5.0\%$  | $\pm 3.0\%$  | $\pm 3.0\%$  | $\pm 3.0\%$  | $\pm 2.0\%$  | $\pm 2.0\%$ |  |
|                        | LINE REGULATION <span style="float:right">Note.5</span>   | $\pm 1.0\%$  | $\pm 1.0\%$  | $\pm 1.0\%$  | $\pm 1.0\%$  | $\pm 1.0\%$  | $\pm 1.0\%$  | $\pm 1.0\%$  | $\pm 1.0\%$ |  |
|                        | LOAD REGULATION   | $\pm 5.0\%$  | $\pm 5.0\%$  | $\pm 5.0\%$  | $\pm 3.0\%$  | $\pm 3.0\%$  | $\pm 3.0\%$  | $\pm 2.0\%$  | $\pm 2.0\%$ |  |
|                        | SETUP, RISE TIME <span style="float:right">Note.6</span>  | 500ms, 30ms / 230VAC      1000ms, 30ms / 115VAC at full load   |              |              |              |              |              |              |             |  |
| HOLD UP TIME (Typ.)    | 16ms / 230VAC      16ms / 115VAC at full load   |  |              |              |              |              |              |              |             |  |
| INPUT                  | VOLTAGE RANGE   | 80 ~ 264VAC      113 ~ 370VDC  |              |              |              |              |              |              |             |  |
|                        | FREQUENCY RANGE   | 47 ~ 63Hz  |              |              |              |              |              |              |             |  |
|                        | EFFICIENCY (Typ.)   | 81%  | 83%          | 84%          | 86%          | 87%          | 87%          | 87%          | 88%         |  |
|                        | AC CURRENT (Typ.)   | 0.9A / 115VAC      0.45A / 230VAC  |              |              |              |              |              |              |             |  |
|                        | INRUSH CURRENT (Typ.)   | 50A / 230VAC   |              |              |              |              |              |              |             |  |
|                        | LEAKAGE CURRENT(max.)   | Touch current < 50 $\mu$ A/264VAC  |              |              |              |              |              |              |             |  |
| PROTECTION             | OVERLOAD  | 105 ~ 170% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed  |              |              |              |              |              |              |             |  |
|                        | OVER VOLTAGE  | 5.25 ~ 7.5V / 7.88 ~ 10.13V / 9.45 ~ 12.6V / 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.   | -30 ~ +60 $^{\circ}$ C (Refer to "Derating Curve")   |              |              |              |              |              |              |             |  |
|                        | WORKING HUMIDITY  | 20% ~ 90% RH non-condensing  |              |              |              |              |              |              |             |  |
|                        | STORAGE TEMP., HUMIDITY   | -40 ~ +85 $^{\circ}$ C, 10 ~ 95% RH  |              |              |              |              |              |              |             |  |
|                        | TEMP. COEFFICIENT   | $\pm 0.03\%$ / $^{\circ}$ C (0~40 $^{\circ}$ C)  |              |              |              |              |              |              |             |  |
|                        | VIBRATION   | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes  |              |              |              |              |              |              |             |  |
| SAFETY & EMC (Note. 7) | SAFETY STANDARDS  | ANSI/AAMI ES60601-1, TUV EN60601-1 / 60601-1-11 approved   |              |              |              |              |              |              |             |  |
|                        | WITHSTAND VOLTAGE   | I/P-O/P:4KVAC  |              |              |              |              |              |              |             |  |
|                        | ISOLATION RESISTANCE  | I/P-O/P:100M Ohms / 500VDC / 25 $^{\circ}$ C / 70% RH  |              |              |              |              |              |              |             |  |
|                        | EMC EMISSION  | Compliance to EN55011(CISPR11) class B, EN61000-3-2,3, FCC PART 15 class B   |              |              |              |              |              |              |             |  |
| OTHERS                 | EMC IMMUNITY  | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN60601-1-2, EN61204-3 medical level, criteria A  |              |              |              |              |              |              |             |  |
|                        | MTBF  | K hrs min. MIL-HDBK-217F(25 $^{\circ}$ C)  |              |              |              |              |              |              |             |  |
|                        | DIMENSION   | 79*54*33mm (L*W*H)   |              |              |              |              |              |              |             |  |
|                        | PACKING   | Kg; 60pcs/ Kg/ CUFT  |              |              |              |              |              |              |             |  |
| 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   | See page 2 ; Other type available by customer requested  |              |              |              |              |              |              |             |  |
| NOTE                   | <ol style="list-style-type: none"> <li>1. All parameters are specified at 230VAC input, rated load, 25<math>^{\circ}</math>C 70% RH ambient.</li> <li>2. DC voltage: The output voltage set at point measure by plug terminal &amp; 50% load.</li> <li>3. Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf &amp; 47uf capacitor.</li> <li>4. Tolerance: includes set up tolerance, line regulation, load regulation.</li> <li>5. Line regulation is measured from low line to high line at rated load.</li> <li>6. 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.</li> <li>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.</li> </ol> |  |              |              |              |              |              |              |             |  |

■ Mechanical Specification

Unit:mm



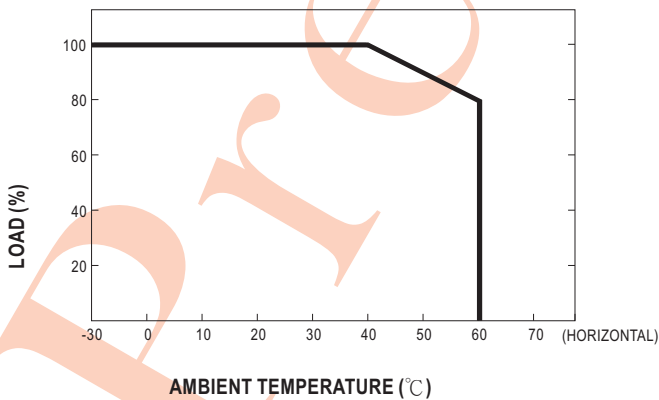
■ Plug Assignment

Standard plug: P1J

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

Optional lock type plug: P2S  
SWITCHCRAFT S761K plug equivalent

■ Derating Curve



■ Static Characteristics

