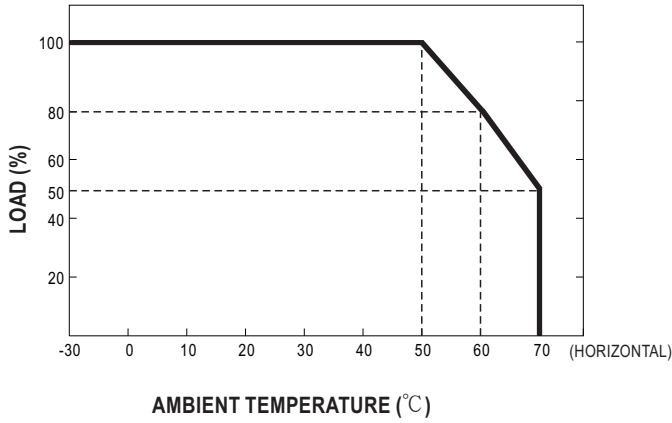




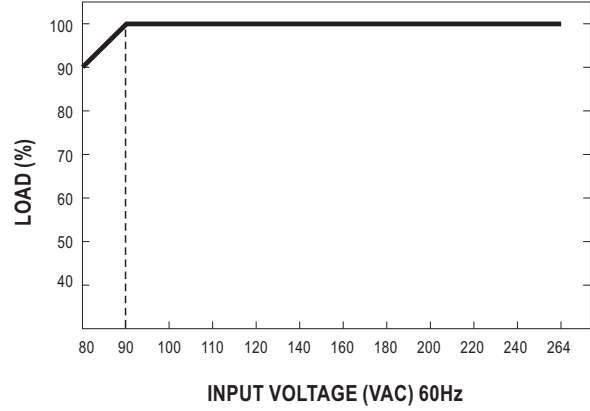
**SPECIFICATION**

| ORDER NO.                  | GSM40B05-P1J  | GSM40B07-P1J  | GSM40B09-P1J   | GSM40B12-P1J | GSM40B15-P1J | GSM40B18-P1J   | GSM40B24-P1J   | GSM40B48-P1J   |              |  |  |
|----------------------------|---|---|--|--------------|--------------|--|----------------|--|--------------|--|--|
| OUTPUT                     | <b>SAFETY MODEL NO.</b>   | GSM40B05  | GSM40B07   | GSM40B09     | GSM40B12     | GSM40B15   | GSM40B18       | GSM40B24   | GSM40B48     |  |  |
|                            | <b>DC VOLTAGE</b> Note.2  | 5V  | 7.5V   | 9V           | 12V          | 15V  | 18V            | 24V  | 48V          |  |  |
|                            | <b>RATED CURRENT</b>  | 5A  | 5.34A  | 4.45A        | 3.34A        | 2.67A  | 2.22A          | 1.67A  | 0.84A        |  |  |
|                            | <b>CURRENT RANGE</b>  | 0 ~ 5A  | 0 ~ 5.34A  | 0 ~ 4.45A    | 0 ~ 3.34A    | 0 ~ 2.67A  | 0 ~ 2.22A      | 0 ~ 1.67A  | 0 ~ 0.84A    |  |  |
|                            | <b>RATED POWER (max.)</b>   | 25W   | 40W  | 40W          | 40W          | 40W  | 40W            | 40W  | 40W          |  |  |
|                            | <b>RIPPLE &amp; NOISE (max.)</b> Note.3   | 80mVp-p   | 80mVp-p  | 100mVp-p     | 100mVp-p     | 100mVp-p   | 120mVp-p       | 150mVp-p   | 150mVp-p     |  |  |
|                            | <b>VOLTAGE TOLERANCE</b> Note.4   | ± 5.0%  | ± 5.0%   | ± 5.0%       | ± 3.0%       | ± 3.0%   | ± 3.0%         | ± 2.5%   | ± 2.5%       |  |  |
|                            | <b>LINE REGULATION</b> Note.5   | ± 1.0%  | ± 1.0%   | ± 1.0%       | ± 1.0%       | ± 1.0%   | ± 1.0%         | ± 1.0%   | ± 1.0%       |  |  |
|                            | <b>LOAD REGULATION</b>  | ± 5.0%  | ± 5.0%   | ± 5.0%       | ± 3.0%       | ± 3.0%   | ± 3.0%         | ± 2.5%   | ± 2.5%       |  |  |
|                            | <b>SETUP, RISE TIME</b> Note.6  | 1000ms, 30ms / 230VAC      1500ms, 30ms / 115VAC at full load   |  |              |              |  |                |  |              |  |  |
| <b>HOLD UP TIME (Typ.)</b> | 50ms / 230VAC      24ms / 115VAC at full load   |   |  |              |              |  |                |  |              |  |  |
| INPUT                      | <b>VOLTAGE RANGE</b> Note.7   | 80 ~ 264VAC   |  |              |              |  |                |  |              |  |  |
|                            | <b>FREQUENCY RANGE</b>  | 47 ~ 63Hz   |  |              |              |  |                |  |              |  |  |
|                            | <b>EFFICIENCY (Typ.)</b>  | 81%   | 85.5%  | 86%          | 88%          | 88.5%  | 89%            | 90%  | 91%          |  |  |
|                            | <b>AC CURRENT (Typ.)</b>  | 1A / 115VAC      0.5A / 230VAC  |  |              |              |  |                |  |              |  |  |
|                            | <b>INRUSH CURRENT (Typ.)</b>  | Cold start 30A / 115VAC      60A / 230VAC   |  |              |              |  |                |  |              |  |  |
|                            | <b>LEAKAGE CURRENT(max.)</b>  | Touch current < 50µA/264VAC   |  |              |              |  |                |  |              |  |  |
| PROTECTION                 | <b>OVERLOAD</b>   | 105 ~ 160% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed   |  |              |              |  |                |  |              |  |  |
|                            | <b>OVER VOLTAGE</b>   | 5.2 ~ 7.0V  | 7.8 ~ 10.2V  | 9.4 ~ 12.2V  | 12.6 ~ 16.2V | 15.7 ~ 20.3V   | 18.9 ~ 24.3V   | 25.2 ~ 32.4V   | 50.4 ~ 64.8V |  |  |
|                            |   | Protection type : Shut down o/p voltage, re-power on to recover   |  |              |              |  |                |  |              |  |  |
| ENVIRONMENT                | <b>WORKING TEMP.</b>  | -30 ~ +70°C (Refer to "Derating Curve")   |  |              |              |  |                |  |              |  |  |
|                            | <b>WORKING HUMIDITY</b>   | 20% ~ 90% RH non-condensing   |  |              |              |  |                |  |              |  |  |
|                            | <b>STORAGE TEMP., HUMIDITY</b>  | -40 ~ +85°C, 10 ~ 95% RH non-condensing   |  |              |              |  |                |  |              |  |  |
|                            | <b>TEMP. COEFFICIENT</b>  | ± 0.03% / °C (0 ~ 50°C)   |  |              |              |  |                |  |              |  |  |
|                            | <b>VIBRATION</b>  | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes   |  |              |              |  |                |  |              |  |  |
|                            | <b>OPERATING ALTITUDE</b> Note.8  | 3000 meters   |  |              |              |  |                |  |              |  |  |
| SAFETY & EMC (Note 9)      | <b>SAFETY STANDARDS</b>   | IEC 60601-1:2005+A1+A2; IEC 60601-1-11:2015+A1, TUV BS EN/ EN 60601-1:2006+A1+A12+A2; BS EN/ EN 60601-1-11:2015+A1 ANSI/AAMI ES60601-1:2005+A2; ANSI/AAMI HA60601-1-11+A1, CAN/CSA C22.2 No. 60601-1:2014+A2; CSA C22.2 NO. 60601-1-11:2015+A1, PSE J60950-1(48V only); EAC TP TC 004; KC K60950-1(48V only) approved |  |              |              |  |                |  |              |  |  |
|                            | <b>ISOLATION LEVEL</b>  | Primary-Secondary: 2xMOPP   |  |              |              |  |                |  |              |  |  |
|                            | <b>WITHSTAND VOLTAGE</b>  | I/P-O/P:4KVAC   |  |              |              |  |                |  |              |  |  |
|                            | <b>ISOLATION RESISTANCE</b>   | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH  |  |              |              |  |                |  |              |  |  |
|                            | <b>EMC EMISSION</b>   | <b>Parameter</b>  | <b>Standard</b>  |              |              |  |                | <b>Test Level / Note</b>   |              |  |  |
|                            |   | Conducted emission  | BS EN/EN55011 (CISPR11), FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B),MSIP KN32 |              |              |  |                | Class B  |              |  |  |
|                            |   | Radiated emission   | BS EN/EN55011 (CISPR11), FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B),MSIP KN32 |              |              |  |                | Class B  |              |  |  |
|                            |   | Harmonic current  | BS EN/EN61000-3-2  |              |              |  |                | Class A  |              |  |  |
|                            |   | Voltage flicker   | BS EN/EN61000-3-3  |              |              |  |                | ----   |              |  |  |
|                            | <b>EMC IMMUNITY</b>   | BS EN/EN60601-1-2, BS EN/EN61204-3  |  |              |              |  |                |  |              |  |  |
|                            |   | <b>Parameter</b>  | <b>Standard</b>  |              |              |  |                | <b>Test Level / Note</b>   |              |  |  |
|                            |   | ESD   | BS EN/EN61000-4-2  |              |              |  |                | Level 4, 15KV air ; Level 4, 8KV contact                             |              |  |  |
|                            |   | RF field susceptibility   | BS EN/EN61000-4-3  |              |              |  |                | Level 3, 10V/m( 80MHz~2.7GHz )<br>Table 9, 9~28V/m( 385MHz~5.78GHz ) |              |  |  |
|                            |   | EFT bursts  | BS EN/EN61000-4-4  |              |              |  |                | Level 3, 2KV   |              |  |  |
|                            |   | Surge susceptibility  | BS EN/EN61000-4-5  |              |              |  |                | Level 3, 1KV/Line-Line   |              |  |  |
| Conducted susceptibility   |   | BS EN/EN61000-4-6   |  |              |              |  | Level 3, 10V   |  |              |  |  |
| Magnetic field immunity    |   | BS EN/EN61000-4-8   |  |              |              |  | Level 4, 30A/m |  |              |  |  |
| Voltage dip, interruption  | BS EN/EN61000-4-11  |   |  |              |              | 100% dip 1 periods, 30% dip 25 periods, 100% interruptions 250 periods |                |  |              |  |  |
| OTHERS                     | <b>MTBF</b>   | 3505.7K hrs min. Telcordia SR-332 (Bellcore) ; 719.4K hrs min. MIL-HDBK-217F (25°C)   |  |              |              |  |                |  |              |  |  |
|                            | <b>DIMENSION</b>  | 125*50*31.5mm (L*W*H)   |  |              |              |  |                |  |              |  |  |
|                            | <b>PACKING</b>  | 0.29Kg; 40pcs/12.6Kg/1.04CUFT   |  |              |              |  |                |  |              |  |  |
| CONNECTOR                  | <b>PLUG</b>   | See page 4~5 ; Other type available by customer requested   |  |              |              |  |                |  |              |  |  |
|                            | <b>CABLE</b>  | See page 4~5 ; Other type available by customer requested   |  |              |              |  |                |  |              |  |  |
| NOTE                       | <p>1. All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.</p> <p>2. DC voltage: The output voltage set at point measure by plug terminal &amp; 50% load.</p> <p>3. Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1 µ F &amp; 47 µ F capacitor.</p> <p>4. Tolerance: includes set up tolerance, line regulation, load regulation.</p> <p>5. Line regulation is measured from low line to high line at rated load.</p> <p>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.</p> <p>7. Derating may be needed under low input voltages. Please check the derating curve for more details.</p> <p>8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> <p>9. 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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a>)</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p> |   |  |              |              |  |                |  |              |  |  |

### Derating Curve

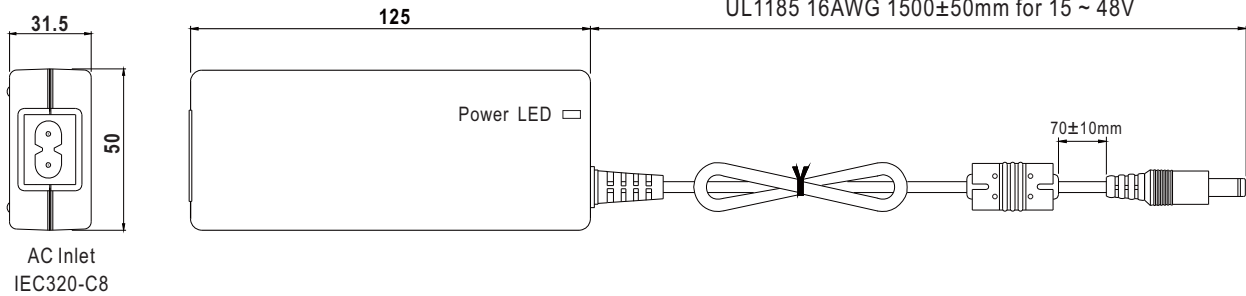


### Static Characteristics



### Mechanical Specification

Case No. GS60B Unit:mm



### DC output plug

Standard plug: P1J

| P1J |  | Pin Assignment |                  |
|-----|--|----------------|------------------|
|     |  |                |                  |
|     |  |                | Outside   Inside |

◎ DC plug changeable through:



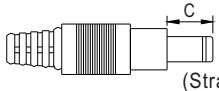
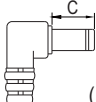


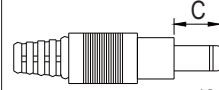
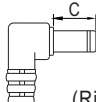


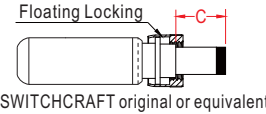




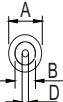
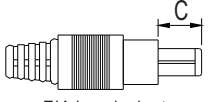
- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
- (2) Quick adapter accessory (sold separately without MOQ)

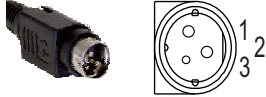
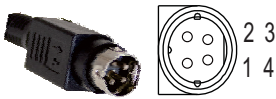


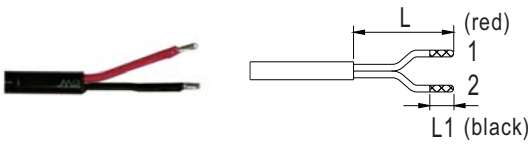
Please refer to below table and online selection guide : [https://www.meanwell.com/upload/pdf/DC\\_plug.pdf](https://www.meanwell.com/upload/pdf/DC_plug.pdf)

Example quick adapter accessory:



◎ Optional DC plug: (Available in customized cable or quick adapter)

| Tuning Fork Style  |            | Type No. | A    | B     | C  | Quick Adapter Accessory                  |  |
|--|------------|----------|------|-------|--|--|--|
|  |            |          | OD   | ID    | L  |  |  |
|  <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>A<br/>B</p> </div> <div style="text-align: center;">  <p>C<br/>(Straight)</p> </div> <div style="text-align: center;">  <p>C<br/>(Right-angled)</p> </div> </div>        | P1I        | 5.5      | 2.1  | 9.5   | Available<br>(Current rating: 7.5A max.) |  |  |
|  | P1L        | 5.5      | 2.5  | 9.5   |  |  |  |
|  | P1M        | 5.5      | 2.5  | 11.0  |  |  |  |
|  | P1IR       | 5.5      | 2.1  | 9.5   |  |  |  |
|  | P1JR       | 5.5      | 2.1  | 11.0  |  |  |  |
|  | P1LR       | 5.5      | 2.5  | 9.5   |  |  |  |
|  | P1MR       | 5.5      | 2.5  | 11.0  |  |  |  |
| Barrel Style   |            | Type No. | A    | B     | C  |  |  |
|  |            |          | OD   | ID    | L  |  |  |
|  <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>A<br/>B</p> </div> <div style="text-align: center;">  <p>C<br/>(Straight)</p> </div> <div style="text-align: center;">  <p>C<br/>(Right-angled)</p> </div> </div> | P2I        | 5.5      | 2.1  | 9.5   | None                                     |  |  |
|  | P2J        | 5.5      | 2.1  | 11.0  |  |  |  |
|  | P2L        | 5.5      | 2.5  | 9.5   |  |  |  |
|  | P2M        | 5.5      | 2.5  | 11.0  |  |  |  |
|  | P2IR       | 5.5      | 2.1  | 9.5   |  |  |  |
|  | P2JR       | 5.5      | 2.1  | 11.0  |  |  |  |
|  | P2LR       | 5.5      | 2.5  | 9.5   |  |  |  |
|  | P2MR       | 5.5      | 2.5  | 11.0  |  |  |  |
| Lock Style   |            | Type No. | A    | B     | C  |  |  |
|  |            |          | OD   | ID    | L  |  |  |
|  <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>A<br/>B</p> </div> <div style="text-align: center;">  <p>Floating Locking<br/>SWITCHCRAFT original or equivalent<br/>C</p> </div> </div>   | P2S(S761K) | 5.53     | 2.03 | 12.06 | None                                     |  |  |
|  | P2K(761K)  | 5.53     | 2.54 | 12.06 |  |  |  |
|  | P2C(S760K) | 5.53     | 2.03 | 9.52  |  |  |  |
|  | P2D(760K)  | 5.53     | 2.54 | 9.52  |  |  |  |
| Min. Pin Style   |            | Type No. | A    | B     | C  |  |  |
|  |            |          | OD   | ID    | L  |  |  |
|  <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>A<br/>B</p> </div> <div style="text-align: center;">  <p>C<br/>EIAJ equivalent</p> </div> </div>   | P3A        | 2.35     | 0.7  | 11.0  | Available<br>(Current rating: 5A max.)   |  |  |
|  | P3B        | 4.0      | 1.7  | 11.0  |  |  |  |
|  | P3C        | 4.75     | 1.7  | 11.0  |  |  |  |
| Center Pin Style   |            | Type No. | A    | B     | C  | D  |  |
|  |            |          | OD   | ID    | L  | Center Pin                               |  |
|  <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>A<br/>B<br/>D</p> </div> <div style="text-align: center;">  <p>C<br/>EIAJ equivalent</p> </div> </div>   | P4A        | 5.5      | 3.4  | 11.0  | 1.0                                      | Available<br>(Current rating: 7.5A max.) |  |
|  | P4B        | 6.5      | 4.4  | 11.0  | 1.4                                      |  |  |
|  | P4C        | 7.4      | 5.1  | 11.0  | 0.6                                      |  |  |

| Min. DIN 3 Pin with Lock (male)  | Type No.    | Pin Assignment |        | Quick Adapter Accessory                  |
|--|-------------|----------------|--------|--|
|  |             | PIN No.        | Output |  |
|   | R6B         | 1              | +Vo    | Available<br>(Current rating: 7.5A max.) |
|  |             | 2              | -Vo    |  |
|  |             | 3              | +Vo    |  |
| Min. DIN 4 Pin with Lock (male)  | Type No.    | Pin Assignment |        | Available<br>(Current rating: 7.5A max.) |
|   | R7B         | 1              | +Vo    |  |
|  |             | 2              | -Vo    |  |
|  |             | 3              | -Vo    |  |
|  |             | 4              | +Vo    |  |
| Min. DIN 4 Pin with Lock (female)  | Type No.    | Pin Assignment |        | None                                     |
|    | R7BF        | 1              | +Vo    |  |
|  |             | 2              | -Vo    |  |
|  |             | 3              | -Vo    |  |
|  |             | 4              | +Vo    |  |
| DIN 5 Pin (male)   | Type No.    | Pin Assignment |        | Available<br>(Current rating: 7.5A max.) |
|   | R1B         | 1              | -Vo    |  |
|  |             | 2              | -Vo    |  |
|  |             | 3              | +Vo    |  |
|  |             | 4              | -Vo    |  |
|  |             | 5              | +Vo    |  |
| Stripped and tinned leads  | Type No.    | Pin Assignment |        | None                                     |
|  <p>Length of Land L1 by request<br/>(MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm)<br/>( NOTE: The wire color is for reference only,<br/>please refer to the actual product)</p> | by customer | 1              | +Vo    |  |
|  |             | 2              | -Vo    |  |

**■ Installation Manual**

Please refer to : <http://www.meanwell.com/manual.html>