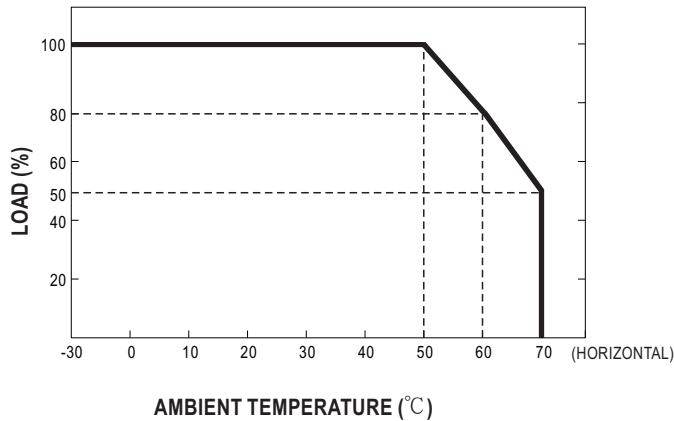




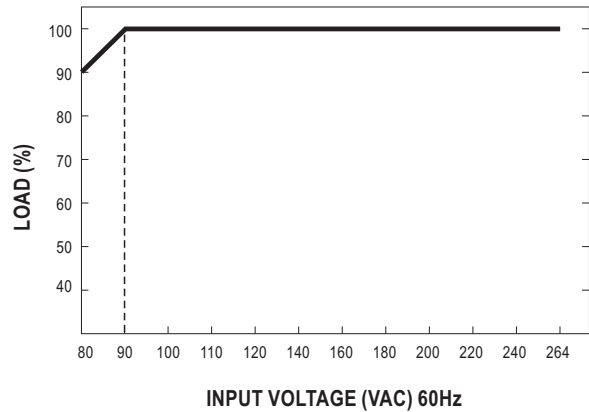
## SPECIFICATION

| ORDER NO.                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | GSM40B05-P1J                                                                                                                                                                                                                                                                                                          | GSM40B07-P1J                                                                     | GSM40B09-P1J                                                                                             | GSM40B12-P1J | GSM40B15-P1J | GSM40B18-P1J                                                           | GSM40B24-P1J | GSM40B48-P1J |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------|--------------|------------------------------------------------------------------------|--------------|--------------|
| OUTPUT                   | SAFETY MODEL NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | GSM40B05                                                                                                                                                                                                                                                                                                              | GSM40B07                                                                         | GSM40B09                                                                                                 | GSM40B12     | GSM40B15     | GSM40B18                                                               | GSM40B24     | GSM40B48     |
|                          | DC VOLTAGE <span>Note.2</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 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.) <span>Note.3</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 80mVp-p                                                                                                                                                                                                                                                                                                               | 80mVp-p                                                                          | 100mVp-p                                                                                                 | 100mVp-p     | 100mVp-p     | 120mVp-p                                                               | 150mVp-p     | 150mVp-p     |
|                          | VOLTAGE TOLERANCE <span>Note.4</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ± 5.0%                                                                                                                                                                                                                                                                                                                | ± 5.0%                                                                           | ± 5.0%                                                                                                   | ± 3.0%       | ± 3.0%       | ± 3.0%                                                                 | ± 2.5%       | ± 2.5%       |
|                          | LINE REGULATION <span>Note.5</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ± 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 <span>Note.6</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1000ms, 30ms / 230VAC      1500ms, 30ms / 115VAC at full load                                                                                                                                                                                                                                                         |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
| HOLD UP TIME (Typ.)      | 50ms / 230VAC      24ms / 115VAC at full load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                       |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
| INPUT                    | VOLTAGE RANGE <span>Note.7</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 80 ~ 264VAC                                                                                                                                                                                                                                                                                                           |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
|                          | FREQUENCY RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 47 ~ 63Hz                                                                                                                                                                                                                                                                                                             |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
|                          | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 81%                                                                                                                                                                                                                                                                                                                   | 85.5%                                                                            | 86%                                                                                                      | 88%          | 88.5%        | 89%                                                                    | 90%          | 91%          |
|                          | AC CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1A / 115VAC      0.5A / 230VAC                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
|                          | INRUSH CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cold start   30A / 115VAC      60A / 230VAC                                                                                                                                                                                                                                                                           |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
|                          | LEAKAGE CURRENT(max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Touch current < 50 $\mu$ A/264VAC                                                                                                                                                                                                                                                                                     |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
| PROTECTION               | OVERLOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 105 ~ 160% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed                                                                                                                                                                                               |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
|                          | OVER VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 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              | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -30 ~ +70 $^{\circ}$ C (Refer to "Derating Curve")                                                                                                                                                                                                                                                                    |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
|                          | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 20% ~ 90% RH non-condensing                                                                                                                                                                                                                                                                                           |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
|                          | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -40 ~ +85 $^{\circ}$ C, 10 ~ 95% RH non-condensing                                                                                                                                                                                                                                                                    |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
|                          | TEMP. COEFFICIENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ± 0.03% / $^{\circ}$ C (0 ~ 50 $^{\circ}$ C)                                                                                                                                                                                                                                                                          |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
|                          | VIBRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes                                                                                                                                                                                                                                               |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
|                          | OPERATING ALTITUDE <span>Note.8</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3000 meters                                                                                                                                                                                                                                                                                                           |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
| SAFETY & EMC<br>(Note 9) | SAFETY STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 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 |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
|                          | ISOLATION LEVEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Primary-Secondary: 2xMOPP                                                                                                                                                                                                                                                                                             |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
|                          | WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | I/P-O/P:4KVAC                                                                                                                                                                                                                                                                                                         |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
|                          | ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | I/P-O/P:100M Ohms / 500VDC / 25 $^{\circ}$ C / 70% RH                                                                                                                                                                                                                                                                 |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
|                          | EMC EMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Parameter                                                                                                                                                                                                                                                                                                             | Standard                                                                         |                                                                                                          |              |              | Test Level / Note                                                      |              |              |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 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                                                                |                                                                                                          |              |              | -----                                                                  |              |              |
|                          | EMC IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | BS EN/EN60601-1-2, BS EN/EN61204-3                                                                                                                                                                                                                                                                                    |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Parameter                                                                                                                                                                                                                                                                                                             | Standard                                                                         |                                                                                                          |              |              | Test Level / Note                                                      |              |              |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 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                                                                                                                                                                                                                                                                                                                | MTBF                                                                             | 3505.7K hrs min.      Telcordia SR-332 (Bellcore) ; 719.4K hrs min.      MIL-HDBK-217F (25 $^{\circ}$ C) |              |              |                                                                        |              |              |
| DIMENSION                | 125*50*31.5mm (L*W*H)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                       |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
| PACKING                  | 0.29Kg; 40pcs/12.6Kg/1.04CUFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                       |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
| CONNECTOR                | PLUG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | See page 4~5 ; Other type available by customer requested                                                                                                                                                                                                                                                             |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
|                          | CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | See page 4~5 ; Other type available by customer requested                                                                                                                                                                                                                                                             |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |
| NOTE                     | 1. All parameters are specified at 230VAC input, rated load, 25 $^{\circ}$ 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 0.1 $\mu$ F & 47 $\mu$ F 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. 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.<br>7. Derating may be needed under low input voltages. Pleas check the derating curve for more details.<br>8. The ambient temperature derating of 3.5 $^{\circ}$ C/1000m with fanless models and of 5 $^{\circ}$ C/1000m with fan models for operating altitude higher than 2000m(6500ft).<br>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."<br>(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> )<br>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |                                                                                                                                                                                                                                                                                                                       |                                                                                  |                                                                                                          |              |              |                                                                        |              |              |

Derating Curve

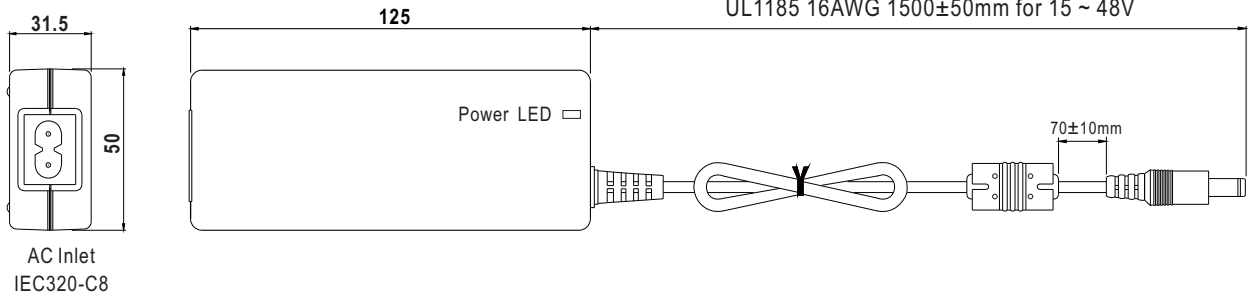


Static Characteristics



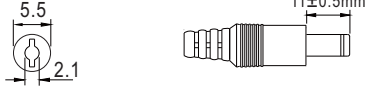
Mechanical Specification

Case No. GS60B Unit:mm



DC output plug

Standard plug: P1J

| P1J                                                                                 | Pin Assignment                                                                                       |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|  |  C"+"           |
|  | Outside  Inside |

◎ DC plug changeable through:

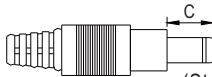
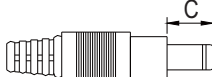
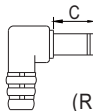
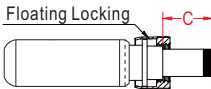
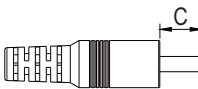
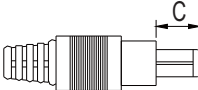
- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
- (2) Quick adapter accessory (sold separately without MOQ)

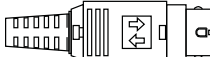
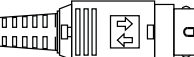
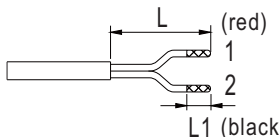
Please refer to below table and online selection guide : [https://www.meanwell.com/upload/pdf/DC\\_plug.pdf](https://www.meanwell.com/upload/pdf/DC_plug.pdf)

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                  |                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------|-------|------------------------------------------|------------------------------------------|
|       | <br>(Straight)<br><br>(Right-angled)    | 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     | None                                     |                                          |
|   | <br>(Straight)<br><br>(Right-angled) |            | OD   | ID   | L     |                                          |                                          |
|                                                                                                                                                                         |                                                                                                                                                                                                            | P2I        | 5.5  | 2.1  | 9.5   |                                          |                                          |
|                                                                                                                                                                         |                                                                                                                                                                                                            | 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     | None                                     |                                          |
|   | <br>Floating Locking<br>SWITCHCRAFT original or equivalent                                                              |            | OD   | ID   | L     |                                          |                                          |
|                                                                                                                                                                         |                                                                                                                                                                                                            | P2S(S761K) | 5.53 | 2.03 | 12.06 |                                          |                                          |
|                                                                                                                                                                         |                                                                                                                                                                                                            | 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     | Available<br>(Current rating: 5A max.)   |                                          |
|   | <br>EIAJ equivalent                                                                                                     |            | OD   | ID   | L     |                                          |                                          |
|                                                                                                                                                                         |                                                                                                                                                                                                            | P3A        | 2.35 | 0.7  | 11.0  |                                          |                                          |
|                                                                                                                                                                         |                                                                                                                                                                                                            | P3B        | 4.0  | 1.7  | 11.0  |                                          |                                          |
| P3C                                                                                                                                                                     | 4.75                                                                                                                                                                                                       | 1.7        | 11.0 |      |       |                                          |                                          |
| Center Pin Style                                                                                                                                                        |                                                                                                                                                                                                            | Type No.   | A    | B    | C     | D                                        | Available<br>(Current rating: 7.5A max.) |
|   | <br>EIAJ equivalent                                                                                                     |            | OD   | ID   | L     | Center Pin                               |                                          |
|                                                                                                                                                                         |                                                                                                                                                                                                            | P4A        | 5.5  | 3.4  | 11.0  | 1.0                                      |                                          |
|                                                                                                                                                                         |                                                                                                                                                                                                            | 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<br>Accessory                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|--------|-------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                             |             | PIN No.        | Output |                                                 |
|   <br>KYCON KPPX-3P equivalent                                                                           | R6B         | 1              | +Vo    | <b>Available</b><br>(Current rating: 7.5A max.) |
|                                                                                                                                                                                                                                                                                                                                                             |             | 2              | -Vo    |                                                 |
|                                                                                                                                                                                                                                                                                                                                                             |             | 3              | +Vo    |                                                 |
| Min. DIN 4 Pin with Lock (male)                                                                                                                                                                                                                                                                                                                             | Type No.    | Pin Assignment |        |                                                 |
|                                                                                                                                                                                                                                                                                                                                                             |             | PIN No.        | Output |                                                 |
|   <br>KYCON KPPX-4P equivalent                                                                           | R7B         | 1              | +Vo    | <b>Available</b><br>(Current rating: 7.5A max.) |
|                                                                                                                                                                                                                                                                                                                                                             |             | 2              | -Vo    |                                                 |
|                                                                                                                                                                                                                                                                                                                                                             |             | 3              | -Vo    |                                                 |
|                                                                                                                                                                                                                                                                                                                                                             |             | 4              | +Vo    |                                                 |
| Min. DIN 4 Pin with Lock (female)                                                                                                                                                                                                                                                                                                                           | Type No.    | Pin Assignment |        |                                                 |
|                                                                                                                                                                                                                                                                                                                                                             |             | PIN No.        | Output |                                                 |
|   <br>KYCON KPJX-CM-4S equivalent                                                                        | R7BF        | 1              | +Vo    | <b>None</b>                                     |
|                                                                                                                                                                                                                                                                                                                                                             |             | 2              | -Vo    |                                                 |
|                                                                                                                                                                                                                                                                                                                                                             |             | 3              | -Vo    |                                                 |
|                                                                                                                                                                                                                                                                                                                                                             |             | 4              | +Vo    |                                                 |
| DIN 5 Pin (male)                                                                                                                                                                                                                                                                                                                                            | Type No.    | Pin Assignment |        |                                                 |
|                                                                                                                                                                                                                                                                                                                                                             |             | PIN No.        | Output |                                                 |
|                                                                                                    | R1B         | 1              | -Vo    | <b>Available</b><br>(Current rating: 7.5A max.) |
|                                                                                                                                                                                                                                                                                                                                                             |             | 2              | -Vo    |                                                 |
|                                                                                                                                                                                                                                                                                                                                                             |             | 3              | +Vo    |                                                 |
|                                                                                                                                                                                                                                                                                                                                                             |             | 4              | -Vo    |                                                 |
|                                                                                                                                                                                                                                                                                                                                                             |             | 5              | +Vo    |                                                 |
| Stripped and tinned leads                                                                                                                                                                                                                                                                                                                                   | Type No.    | Pin Assignment |        |                                                 |
|                                                                                                                                                                                                                                                                                                                                                             |             | PIN No.        | Output |                                                 |
|  <br>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) | by customer | 1              | +Vo    | <b>None</b>                                     |
|                                                                                                                                                                                                                                                                                                                                                             |             | 2              | -Vo    |                                                 |

## ■ Installation Manual

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