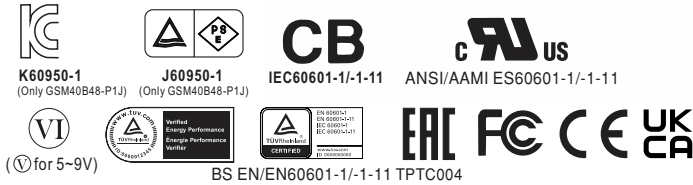


# GSM40B Series

40W AC-DC Reliable Green Medical Adaptor



## Features

- 2 pole AC inlet IEC320-C8, Class II power unit
- Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1/-1-11 and IEC/BS EN/EN60601-1/-1-11
- Extremely low leakage current
- No load power consumption < 0.1W
- Energy efficiency level VI and meet CoC Version 5 (Except 5~9V for Level V)
- Comply with Korea K-MEPS (only GSM40B48-P1J)
- -30~+70°C wide range working temperature
- Protections: Short circuit / Overload / Over voltage
- LED indicator for power on
- Lifetime > 90 K hours
- Various DC plug quick adapter accessory available (Plug kit sold separately, please refer to : [https://www.meanwell.com/upload/pdf/DC\\_plug.pdf](https://www.meanwell.com/upload/pdf/DC_plug.pdf))
- 3 years warranty

## Applications

- Mobile clinical workstation
- Oral irrigator
- Portable hemodialysis machine
- Breath Machine
- Medical computer monitor

## GTIN CODE

MW Search : <https://www.meanwell.com/serviceGTIN.aspx>

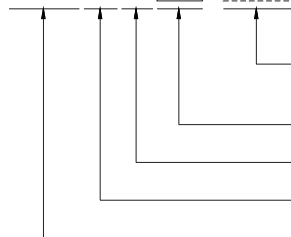
## Description

GSM40B is a highly reliable, 40W desktop style single-output green medical adaptor series. This product is equipped with a 2-pin (no FG) standard IEC320-C8 power plug, adopting the input range from 80VAC to 264VAC. The entire series supplies different output voltages between 5VDC and 48VDC that can satisfy the demands for various kinds of medical electrical devices. The circuitry design meets the international medical standards (2\*MOPP), having an ultra low leakage current (<50 μA), fitting the medical devices in direct electrical contact with the patients.

With the efficiency up to 91% and the extremely low no-load power consumption below 0.1W, GSM40B is compliant with USA EISA 2007/DoE, Canada NRCAN, Australia and New Zealand MEPS, EU ErP, and meet Code of Conduct (CoC) Version 5. The supreme feature allows the adaptor to save the energy when it is either under the operating mode or the standby mode. The entire series utilizes the 94V-0 flame retardant plastic case, providing the double insulation that effectively prevents electrical shock. GSM40B is approved with the international medical safety certificates.

## Model Encoding

GSM40B 05 - P1J



- DC plug type { P1J: Standard model, 2.1 φ x 5.5 φ x 11 mm, C+, tuning fork type  
Other options available by customer requested (see Page 4~5)
- Output voltage
- IEC320-C8 AC inlet
- Rated wattage
- Series name

### SPECIFICATION

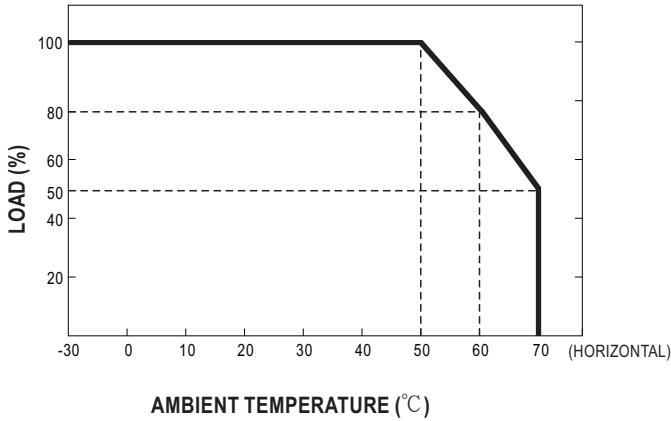
| ORDER NO.                            | GSM40B05-P1J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 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 <small>Note.2</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5V                                                                                                                                                                                                                                                                                                                    | 7.5V                                                                             | 9V           | 12V          | 15V                                                                    | 18V                    | 24V                                                                  | 48V          |                                                                 |  |
|                                      | RATED CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5A                                                                                                                                                                                                                                                                                                                    | 5.34A                                                                            | 4.45A        | 3.34A        | 2.67A                                                                  | 2.22A                  | 1.67A                                                                | 0.84A        |                                                                 |  |
|                                      | CURRENT RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 ~ 5A                                                                                                                                                                                                                                                                                                                | 0 ~ 5.34A                                                                        | 0 ~ 4.45A    | 0 ~ 3.34A    | 0 ~ 2.67A                                                              | 0 ~ 2.22A              | 0 ~ 1.67A                                                            | 0 ~ 0.84A    |                                                                 |  |
|                                      | RATED POWER (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 25W                                                                                                                                                                                                                                                                                                                   | 40W                                                                              | 40W          | 40W          | 40W                                                                    | 40W                    | 40W                                                                  | 40W          |                                                                 |  |
|                                      | RIPPLE & NOISE (max.) <small>Note.3</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 80mVp-p                                                                                                                                                                                                                                                                                                               | 80mVp-p                                                                          | 100mVp-p     | 100mVp-p     | 100mVp-p                                                               | 120mVp-p               | 150mVp-p                                                             | 150mVp-p     |                                                                 |  |
|                                      | VOLTAGE TOLERANCE <small>Note.4</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ±5.0%                                                                                                                                                                                                                                                                                                                 | ±5.0%                                                                            | ±5.0%        | ±3.0%        | ±3.0%                                                                  | ±3.0%                  | ±2.5%                                                                | ±2.5%        |                                                                 |  |
|                                      | LINE REGULATION <small>Note.5</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ±1.0%                                                                                                                                                                                                                                                                                                                 | ±1.0%                                                                            | ±1.0%        | ±1.0%        | ±1.0%                                                                  | ±1.0%                  | ±1.0%                                                                | ±1.0%        |                                                                 |  |
|                                      | LOAD REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ±5.0%                                                                                                                                                                                                                                                                                                                 | ±5.0%                                                                            | ±5.0%        | ±3.0%        | ±3.0%                                                                  | ±3.0%                  | ±2.5%                                                                | ±2.5%        |                                                                 |  |
|                                      | SETUP, RISE TIME <small>Note.6</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1000ms, 30ms / 230VAC      1500ms, 30ms / 115VAC at full load                                                                                                                                                                                                                                                         |                                                                                  |              |              |                                                                        |                        |                                                                      |              |                                                                 |  |
| HOLD UP TIME (Typ.)                  | 50ms / 230VAC      24ms / 115VAC at full load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                       |                                                                                  |              |              |                                                                        |                        |                                                                      |              |                                                                 |  |
| INPUT                                | VOLTAGE RANGE <small>Note.7</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 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 < 50µA/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°C (Refer to "Derating Curve")                                                                                                                                                                                                                                                                               |                                                                                  |              |              |                                                                        |                        |                                                                      |              |                                                                 |  |
|                                      | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20% ~ 90% RH non-condensing                                                                                                                                                                                                                                                                                           |                                                                                  |              |              |                                                                        |                        |                                                                      |              |                                                                 |  |
|                                      | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -40 ~ +85°C, 10 ~ 95% RH non-condensing                                                                                                                                                                                                                                                                               |                                                                                  |              |              |                                                                        |                        |                                                                      |              |                                                                 |  |
|                                      | TEMP. COEFFICIENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ±0.03% / °C (0 ~ 50°C)                                                                                                                                                                                                                                                                                                |                                                                                  |              |              |                                                                        |                        |                                                                      |              |                                                                 |  |
|                                      | VIBRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes                                                                                                                                                                                                                                               |                                                                                  |              |              |                                                                        |                        |                                                                      |              |                                                                 |  |
|                                      | OPERATING ALTITUDE <small>Note.8</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3000 meters                                                                                                                                                                                                                                                                                                           |                                                                                  |              |              |                                                                        |                        |                                                                      |              |                                                                 |  |
| SAFETY & EMC <small>(Note 9)</small> | 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°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°C)                                                                                                                                                                                                                             |                                                                                  |              |              |                                                                        |                        |                                                                      |              |                                                                 |  |
|                                      | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 125*50*31.5mm (L*W*H)                                                                                                                                                                                                                                                                                                 |                                                                                  |              |              |                                                                        |                        |                                                                      |              |                                                                 |  |
|                                      | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.27Kg; 40pcs/11.8Kg/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                                 | <p>1. All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.</p> <p>2. DC voltage: The output voltage set at point measure by plug terminal &amp; 50% load.</p> <p>3. Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1 µF &amp; 47 µF capacitor.</p> <p>4. Tolerance: includes set up tolerance, line regulation, load regulation.</p> <p>5. Line regulation is measured from low line to high line at rated load.</p> <p>6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.</p> <p>7. Derating may be needed under low input voltages. Please check the derating curve for more details.</p> <p>8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> <p>9. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a>)</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p> |                                                                                                                                                                                                                                                                                                                       |                                                                                  |              |              |                                                                        |                        |                                                                      |              |                                                                 |  |

# GSM40B Series

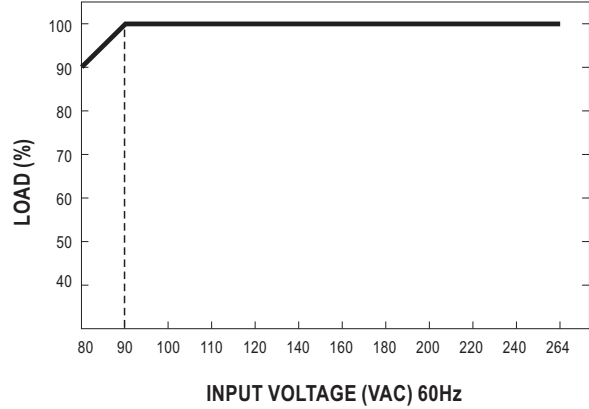
40W AC-DC Reliable Green Medical Adaptor



## Derating Curve



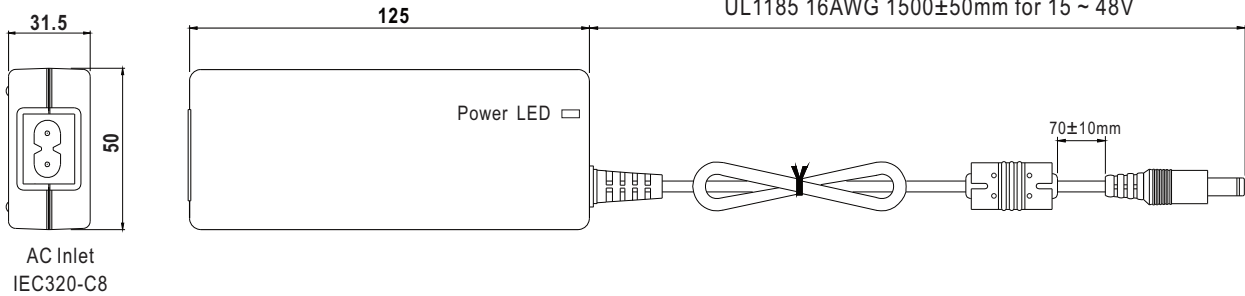
## Static Characteristics



## Mechanical Specification

(Unit: mm, tolerance  $\pm 1$ mm)

Case No. GS60B



## DC output plug

Standard plug: P1J

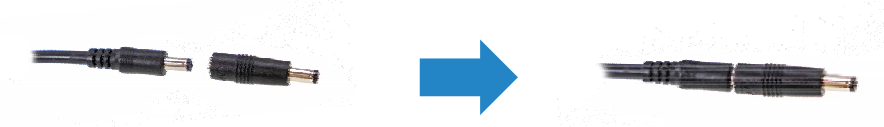
| P1J | Pin Assignment  |
|-----|-----------------|
|     |                 |
|     | Outside  Inside |

☉ DC plug changeable through:

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

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

Example quick adapter accessory:



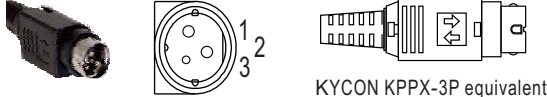
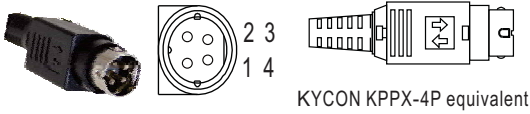
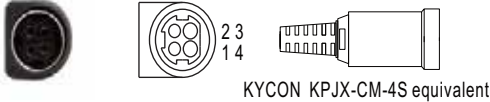

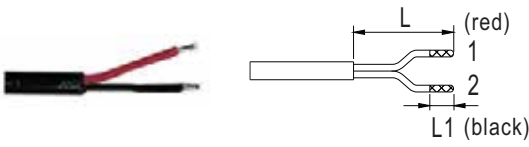
☉ Optional DC plug: (Available in customized cable or quick adapter)

| Tuning Fork Style                                          |                                      | Type No.   | A<br>OD | B<br>ID | C<br>L | Quick Adapter<br>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<br>OD | B<br>ID | C<br>L | Quick Adapter<br>Accessory               |                                          |
|                                                            | <br>(Straight)<br><br>(Right-angled) | P2I        | 5.5     | 2.1     | 9.5    | None                                     |                                          |
|                                                            |                                      | P2J        | 5.5     | 2.1     | 11.0   |                                          |                                          |
|                                                            |                                      | P2L        | 5.5     | 2.5     | 9.5    |                                          |                                          |
|                                                            |                                      | P2M        | 5.5     | 2.5     | 11.0   |                                          |                                          |
|                                                            |                                      | P2IR       | 5.5     | 2.1     | 9.5    |                                          |                                          |
|                                                            |                                      | P2JR       | 5.5     | 2.1     | 11.0   |                                          |                                          |
|                                                            |                                      | P2LR       | 5.5     | 2.5     | 9.5    |                                          |                                          |
| P2MR                                                       | 5.5                                  | 2.5        | 11.0    |         |        |                                          |                                          |
| Lock Style                                                 |                                      | Type No.   | A<br>OD | B<br>ID | C<br>L | Quick Adapter<br>Accessory               |                                          |
| <br>Floating Locking<br>SWITCHCRAFT original or equivalent |                                      | P2S(S761K) | 5.53    | 2.03    | 12.06  | None                                     |                                          |
|                                                            |                                      | P2K(761K)  | 5.53    | 2.54    | 12.06  |                                          |                                          |
|                                                            |                                      | P2C(S760K) | 5.53    | 2.03    | 9.52   |                                          |                                          |
|                                                            |                                      | P2D(760K)  | 5.53    | 2.54    | 9.52   |                                          |                                          |
| Min. Pin Style                                             |                                      | Type No.   | A<br>OD | B<br>ID | C<br>L | Quick Adapter<br>Accessory               |                                          |
| <br>EIAJ equivalent                                        |                                      | P3A        | 2.35    | 0.7     | 11.0   | Available<br>(Current rating: 5A max.)   |                                          |
|                                                            |                                      | P3B        | 4.0     | 1.7     | 11.0   |                                          |                                          |
|                                                            |                                      | P3C        | 4.75    | 1.7     | 11.0   |                                          |                                          |
| Center Pin Style                                           |                                      | Type No.   | A<br>OD | B<br>ID | C<br>L | D<br>Center Pin                          | Quick Adapter<br>Accessory               |
| <br>EIAJ equivalent                                        |                                      | P4A        | 5.5     | 3.4     | 11.0   | 1.0                                      | Available<br>(Current rating: 7.5A max.) |
|                                                            |                                      | P4B        | 6.5     | 4.4     | 11.0   | 1.4                                      |                                          |
|                                                            |                                      | P4C        | 7.4     | 5.1     | 11.0   | 0.6                                      |                                          |

# GSM40B Series

40W AC-DC Reliable Green Medical Adaptor



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

## ■ Installation Manual

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