



User's Manual



Video



## Features

- **Global certificates**
- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14, Class I power unit
- No load power consumption < 0.075W
- **Energy efficiency Level VI**
- Comply with EISA 2007/DoE, NRCAN, Korea K-MEPS, AU/NZ MEPS, EU ErP and CoC Version 5
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- Pass LPS
- -30~+70°C wide range working temperature
- LED indicator for power on
- **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

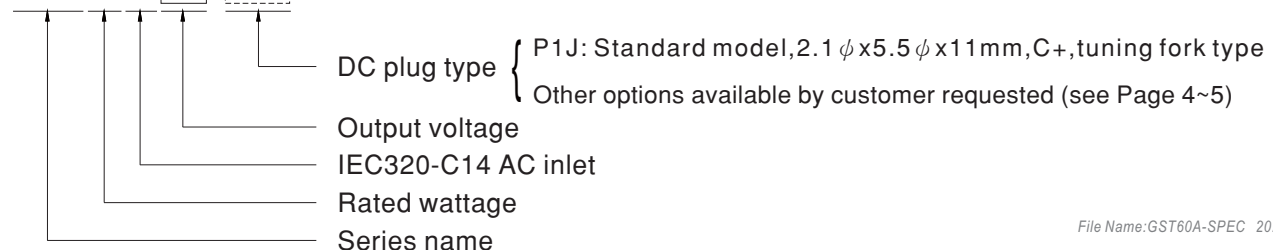
## Description

GST60A is a highly reliable, 60W desktop style single-output green adaptor series. This product is a class I power unit (with FG), equipped with a standard IEC320-C14 AC inlet and adopting the input range from 90VAC to 264VAC. The entire series supplies different models with output voltages ranging between 5VDC and 48VDC that can satisfy the demands for various types of consumer electronic devices.

With the efficiency up to 92% and the extremely low no-load power consumption below 0.075W, GST60A is compliant with USA EISA 2007/DoE, Canada NRCAN, Australia and New Zealand MEPS, Korea K-MEPS, EU ErP and 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. GST60A is certified for the international safety regulations.

## Model Encoding

**GST 60 A 05 -P1J**



## Applications

- Consumer electronic devices
- Telecommunication devices
- Office facilities
- Industrial equipments

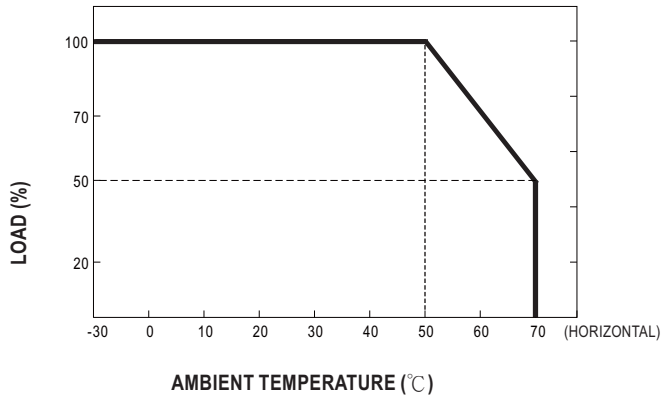
## GTIN CODE

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

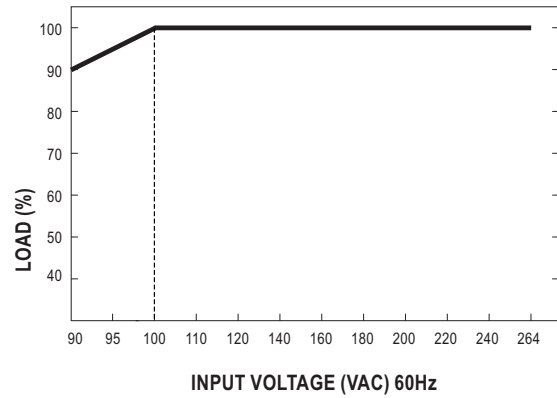
# SPECIFICATION

| ORDER NO.                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | GST60A05-P1J                                                                                                                                                                                                  | GST60A07-P1J                                                                                                         | GST60A09-P1J | GST60A12-P1J | GST60A15-P1J                                                                 | GST60A18-P1J                            | GST60A24-P1J | GST60A48-P1J |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|--------------|------------------------------------------------------------------------------|-----------------------------------------|--------------|--------------|
| OUTPUT                      | SAFETY MODEL NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | GST60A05                                                                                                                                                                                                      | GST60A07                                                                                                             | GST60A09     | GST60A12     | GST60A15                                                                     | GST60A18                                | GST60A24     | GST60A48     |
|                             | DC VOLTAGE <span>Note.2</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5V                                                                                                                                                                                                            | 7.5V                                                                                                                 | 9V           | 12V          | 15V                                                                          | 18V                                     | 24V          | 48V          |
|                             | RATED CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6A                                                                                                                                                                                                            | 6A                                                                                                                   | 6A           | 5A           | 4A                                                                           | 3.33A                                   | 2.5A         | 1.25A        |
|                             | CURRENT RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 ~ 6A                                                                                                                                                                                                        | 0 ~ 6A                                                                                                               | 0 ~ 6A       | 0 ~ 5A       | 0 ~ 4A                                                                       | 0 ~ 3.33A                               | 0 ~ 2.5A     | 0 ~ 1.25A    |
|                             | RATED POWER (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 30W                                                                                                                                                                                                           | 45W                                                                                                                  | 54W          | 60W          | 60W                                                                          | 60W                                     | 60W          | 60W          |
|                             | RIPPLE & NOISE (max.) <span>Note.3</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120mVp-p                                                                                                                                                                                                      | 120mVp-p                                                                                                             | 120mVp-p     | 120mVp-p     | 120mVp-p                                                                     | 150mVp-p                                | 150mVp-p     | 200mVp-p     |
|                             | VOLTAGE TOLERANCE <span>Note.4</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ±5.0%                                                                                                                                                                                                         | ±5.0%                                                                                                                | ±5.0%        | ±3.0%        | ±3.0%                                                                        | ±3.0%                                   | ±3.0%        | ±2.5%        |
|                             | LINE REGULATION <span>Note.5</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ±1.0%                                                                                                                                                                                                         | ±1.0%                                                                                                                | ±1.0%        | ±1.0%        | ±1.0%                                                                        | ±1.0%                                   | ±1.0%        | ±1.0%        |
|                             | LOAD REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ±5.0%                                                                                                                                                                                                         | ±5.0%                                                                                                                | ±5.0%        | ±3.0%        | ±3.0%                                                                        | ±3.0%                                   | ±3.0%        | ±2.5%        |
|                             | SETUP, RISE TIME <span>Note.6</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1000ms, 50ms / 230VAC    1000ms, 50ms / 115VAC at full load                                                                                                                                                   |                                                                                                                      |              |              |                                                                              |                                         |              |              |
| HOLD UP TIME (Typ.)         | 50ms / 230VAC    15ms / 115VAC at full load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                               |                                                                                                                      |              |              |                                                                              |                                         |              |              |
| INPUT                       | VOLTAGE RANGE <span>Note.7</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 90 ~ 264VAC                                                                                                                                                                                                   |                                                                                                                      |              |              |                                                                              |                                         |              |              |
|                             | FREQUENCY RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 47 ~ 63Hz                                                                                                                                                                                                     |                                                                                                                      |              |              |                                                                              |                                         |              |              |
|                             | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 85.5%                                                                                                                                                                                                         | 88.5%                                                                                                                | 89%          | 89.5%        | 89.5%                                                                        | 89.5%                                   | 90.5%        | 92%          |
|                             | AC CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.4A / 115VAC    1A / 230VAC                                                                                                                                                                                  |                                                                                                                      |              |              |                                                                              |                                         |              |              |
|                             | INRUSH CURRENT (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cold start    35A / 115AC    65A / 230VAC                                                                                                                                                                     |                                                                                                                      |              |              |                                                                              |                                         |              |              |
|                             | LEAKAGE CURRENT(max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.75mA / 240VAC                                                                                                                                                                                               |                                                                                                                      |              |              |                                                                              |                                         |              |              |
| PROTECTION                  | OVERLOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 105 ~ 150% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed                                                                                       |                                                                                                                      |              |              |                                                                              |                                         |              |              |
|                             | OVER VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5.2 ~ 6.8V                                                                                                                                                                                                    | 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                                                                                                                                               |                                                                                                                      |              |              |                                                                              |                                         |              |              |
|                             | OVER TEMPERATURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Shut down o/p voltage, re-power on to recover                                                                                                                                                                 |                                                                                                                      |              |              |                                                                              |                                         |              |              |
| ENVIRONMENT                 | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -30 ~ +70℃ (Refer to "Derating Curve")                                                                                                                                                                        |                                                                                                                      |              |              |                                                                              |                                         |              |              |
|                             | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20% ~ 90% RH non-condensing                                                                                                                                                                                   |                                                                                                                      |              |              |                                                                              |                                         |              |              |
|                             | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -40 ~ +85℃, 10 ~ 95% RH non-condensing                                                                                                                                                                        |                                                                                                                      |              |              |                                                                              |                                         |              |              |
|                             | TEMP. COEFFICIENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ±0.03% / °C (0 ~ 50℃)                                                                                                                                                                                         |                                                                                                                      |              |              |                                                                              |                                         |              |              |
|                             | VIBRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes                                                                                                                                       |                                                                                                                      |              |              |                                                                              |                                         |              |              |
| SAFETY & EMC<br>(Note. 9)   | SAFETY STANDARDS <span>Note. 8</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UL62368-1, CSA C22.2 No.62368-1, TUV BS EN/EN62368-1, BSMI CNS 14336-1, CCC GB4943.1, PSE J62368-1, AS/NZS 60950.1, BIS IS13252, KC K60950-1, EAC TP TC 004 approved; SIRIM MS IEC60950-1 (optional) approved |                                                                                                                      |              |              |                                                                              |                                         |              |              |
|                             | WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | I/P-O/P:3KVAC    I/P-FG:2KVAC    O/P-FG:0.5KVAC                                                                                                                                                               |                                                                                                                      |              |              |                                                                              |                                         |              |              |
|                             | ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH                                                                                                                                                     |                                                                                                                      |              |              |                                                                              |                                         |              |              |
|                             | EMC EMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Parameter                                                                                                                                                                                                     | Standard                                                                                                             |              |              |                                                                              | Test Level / Note                       |              |              |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Conducted emission                                                                                                                                                                                            | BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22<br>CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1<br>EAC TP TC 020,MSIP KN32 |              |              |                                                                              | Class B                                 |              |              |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Radiated emission                                                                                                                                                                                             | BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22<br>CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1<br>EAC TP TC 020,MSIP KN32 |              |              |                                                                              | Class B                                 |              |              |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Harmonic current                                                                                                                                                                                              | BS EN/EN61000-3-2,GB9254                                                                                             |              |              |                                                                              | Class A                                 |              |              |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Voltage flicker                                                                                                                                                                                               | BS EN/EN61000-3-3                                                                                                    |              |              |                                                                              | -----                                   |              |              |
|                             | EMC IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 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 2, 3V/m                           |              |              |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | EFT bursts                                                                                                                                                                                                    | BS EN/EN61000-4-4                                                                                                    |              |              |                                                                              | Level 2, 1KV                            |              |              |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Surge susceptibility                                                                                                                                                                                          | BS EN/EN61000-4-5                                                                                                    |              |              |                                                                              | Level 3, 1KV/Line-Line , 2KV/Line-FG    |              |              |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Conducted susceptibility                                                                                                                                                                                      | BS EN/EN61000-4-6                                                                                                    |              |              |                                                                              | Level 2, 3V                             |              |              |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Magnetic field immunity                                                                                                                                                                                       | BS EN/EN61000-4-8                                                                                                    |              |              |                                                                              | Level 2, 3A/m                           |              |              |
| Voltage dips , interruption |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BS EN/EN61000-4-11                                                                                                                                                                                            |                                                                                                                      |              |              | >95% dip 0. 5 periods, 30% dip 25 periods,<br>>95% interruptions 250 periods |                                         |              |              |
| OTHERS                      | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3620.0K hrs min.    Telcordia SR-332 (Bellcore) ; 236.4K hrs min.    MIL-HDBK-217F (25℃)                                                                                                                      |                                                                                                                      |              |              |                                                                              |                                         |              |              |
|                             | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 125*50*31.5mm (L*W*H)                                                                                                                                                                                         |                                                                                                                      |              |              |                                                                              |                                         |              |              |
|                             | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.305Kg; 40pcs/13.02Kg/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                        | <div>1. All parameters are specified at 230VAC input, rated load, 25℃ 70% RH ambient.</div> <div>2. DC voltage: The output voltage set at point measure by plug terminal &amp; 50% load.</div> <div>3. Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1μf &amp; 47μf capacitor.</div> <div>4. Tolerance: includes set up tolerance, line regulation, load regulation.</div> <div>5. Line regulation is measured from low line to high line at rated load.</div> <div>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.</div> <div>7. Derating may be needed under low input voltages. Pleas check the derating curve for more details.</div> <div>8. The demand for Malaysia safety is processed with the order no. GST60A □ -SIRIM by request. Please contact MEAN WELL for details.</div> <div>9. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."<br/>(as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</div> <div>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></div> |                                                                                                                                                                                                               |                                                                                                                      |              |              |                                                                              |                                         |              |              |

## Derating Curve

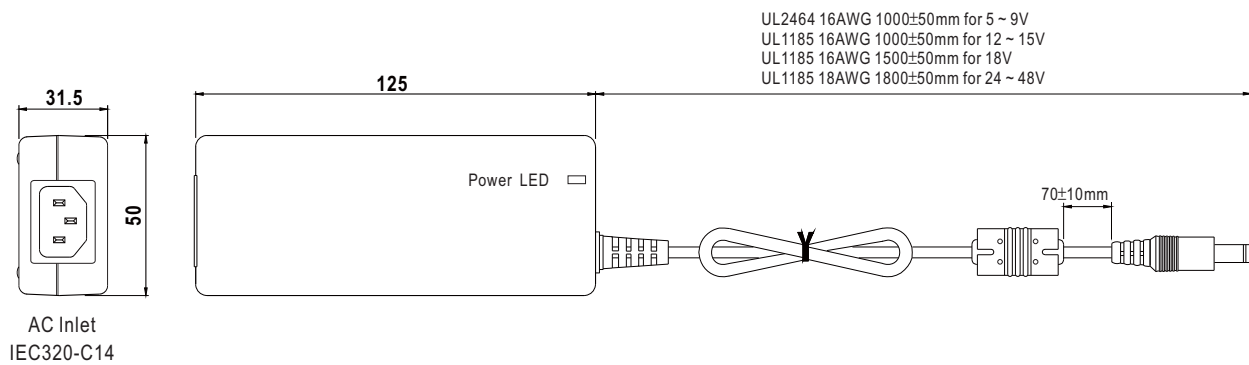


## Static Characteristics



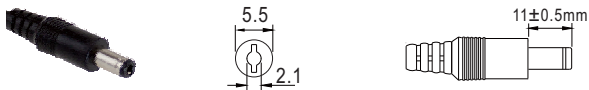
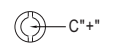
## Mechanical Specification

Case No. GS60A Unit:mm



## DC output plug

Standard plug: P1J

| P1J                                                                                 | Pin Assignment                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                                                                                                                                    |
|                                                                                     | Outside  Inside <br>-V not connected to AC FG |

◎ DC plug changeable through:

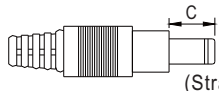
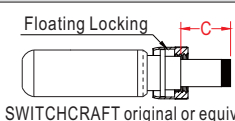
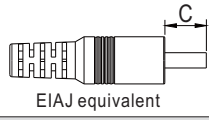
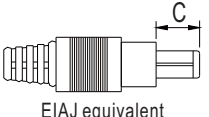
- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
- (2) Quick adapter accessory (sold separately without MOQ)

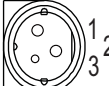
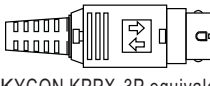
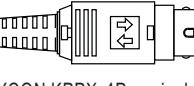
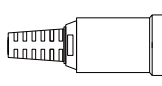
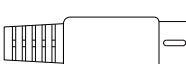
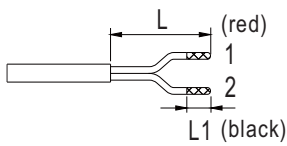
Please refer to below table and online selection guide : [https://www.meanwell.com/upload/pdf/DC\\_plug.pdf](https://www.meanwell.com/upload/pdf/DC_plug.pdf)

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

| Min. DIN 3 Pin with Lock (male)                                                                                                                                                                                                                                                      | Type No.    | Pin Assignment |        | Quick Adapter<br>Accessory                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|--------|-------------------------------------------------|
|                                                                                                                                                                                                                                                                                      |             | PIN No.        | Output |                                                 |
|   <br>KYCON KPPX-3P equivalent    | R6B         | 1              | +Vo    | <b>Available</b><br>(Current rating: 7.5A max.) |
|                                                                                                                                                                                                                                                                                      |             | 2              | -Vo    |                                                 |
|                                                                                                                                                                                                                                                                                      |             | 3              | +Vo    |                                                 |
| Min. DIN 4 Pin with Lock (male)                                                                                                                                                                                                                                                      | Type No.    | Pin Assignment |        |                                                 |
|                                                                                                                                                                                                                                                                                      |             | PIN No.        | Output |                                                 |
|   <br>KYCON KPPX-4P equivalent    | R7B         | 1              | +Vo    | <b>Available</b><br>(Current rating: 7.5A max.) |
|                                                                                                                                                                                                                                                                                      |             | 2              | -Vo    |                                                 |
|                                                                                                                                                                                                                                                                                      |             | 3              | -Vo    |                                                 |
|                                                                                                                                                                                                                                                                                      |             | 4              | +Vo    |                                                 |
| Min. DIN 4 Pin with Lock (female)                                                                                                                                                                                                                                                    | Type No.    | Pin Assignment |        |                                                 |
|                                                                                                                                                                                                                                                                                      |             | PIN No.        | Output |                                                 |
|   <br>KYCON KPJX-CM-4S equivalent | R7BF        | 1              | +Vo    | <b>None</b>                                     |
|                                                                                                                                                                                                                                                                                      |             | 2              | -Vo    |                                                 |
|                                                                                                                                                                                                                                                                                      |             | 3              | -Vo    |                                                 |
|                                                                                                                                                                                                                                                                                      |             | 4              | +Vo    |                                                 |
| DIN 5 Pin (male)                                                                                                                                                                                                                                                                     | Type No.    | Pin Assignment |        |                                                 |
|                                                                                                                                                                                                                                                                                      |             | PIN No.        | Output |                                                 |
|                             | R1B         | 1              | -Vo    | <b>Available</b><br>(Current rating: 7.5A max.) |
|                                                                                                                                                                                                                                                                                      |             | 2              | -Vo    |                                                 |
|                                                                                                                                                                                                                                                                                      |             | 3              | +Vo    |                                                 |
|                                                                                                                                                                                                                                                                                      |             | 4              | -Vo    |                                                 |
|                                                                                                                                                                                                                                                                                      |             | 5              | +Vo    |                                                 |
| Stripped and tinned leads                                                                                                                                                                                                                                                            | Type No.    | Pin Assignment |        |                                                 |
|                                                                                                                                                                                                                                                                                      |             | PIN No.        | Output |                                                 |
|  <br>Length of Land L1 by request<br>(MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm)                  | by customer | 1              | +Vo    | <b>None</b>                                     |
|                                                                                                                                                                                                                                                                                      |             | 2              | -Vo    |                                                 |

## Installation Manual

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