



■ Features

- Ultra slim and compact size
- Universal AC input / Full range
- 2 pole USA plug, Class II power unit
- No load power consumption <0.15W
- **Energy efficiency Level VI**
- Comply with EISA 2007/DoE
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- Pass LPS
- 7.5V /9V/ 18V models available (by request)
- **Various DC plug quick adapter accessory available**
(Plug kit sold separately, please refer to : https://www.meanwell.com/upload/pdf/DC_plug.pdf)
- 3 years warranty

■ Applications

- Consumer electronic devices
- Telecommunication devices
- Office facilities
- Industrial equipments
- Power sourcing equipment of PoE

■ GTIN CODE

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

■ Description

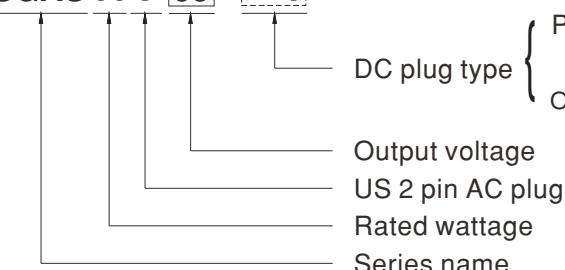
SGAS60U is a 60W compact size wall-mounted style single-output green adaptor series, which is compact and convenient for carry. SGAS60U is a class II power unit (no FG) equipped with the standard 2-Pin U.S. plug, accepting the input range from 90VAC to 264VAC. The whole series provides different models with output voltages ranging between 5VDC and 48VDC that it can satisfy the demands for various types of consumer electronic devices.

With the efficiency up to 90% and the extremely low no-load power consumption below 0.15W, SGAS60U is compliant with the latest U.S. energy regulation EISA 2007/DoE(Level VI).

The supreme feature allows the adaptor to save the energy when it is under either the operating mode or the standby mode. The entire series is approved for international safety regulations; moreover, it adopts the 94V-0 flame retardant plastic case that it can effectively prevent users from electric hazards.

■ Model Encoding

SGAS 60 U 05 - P1J

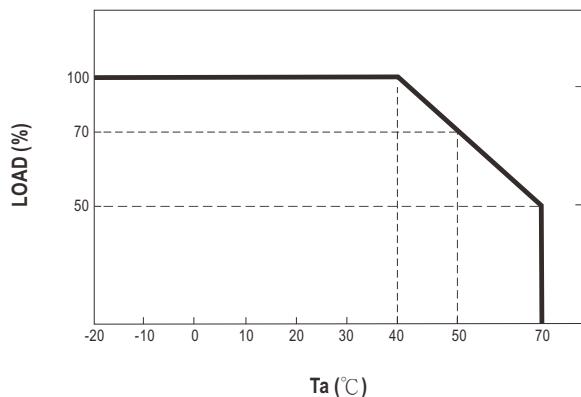
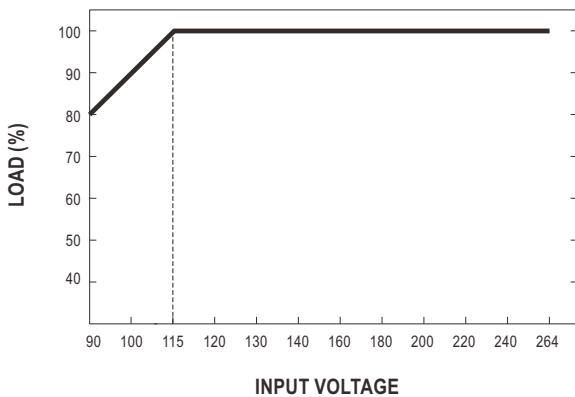


DC plug type { P1J: Plug for standard model, 2.1 ψ \times 5.5 ψ \times 11mm,
C+ tuning fork type
Other options available by customer requested (see Page 4~5)

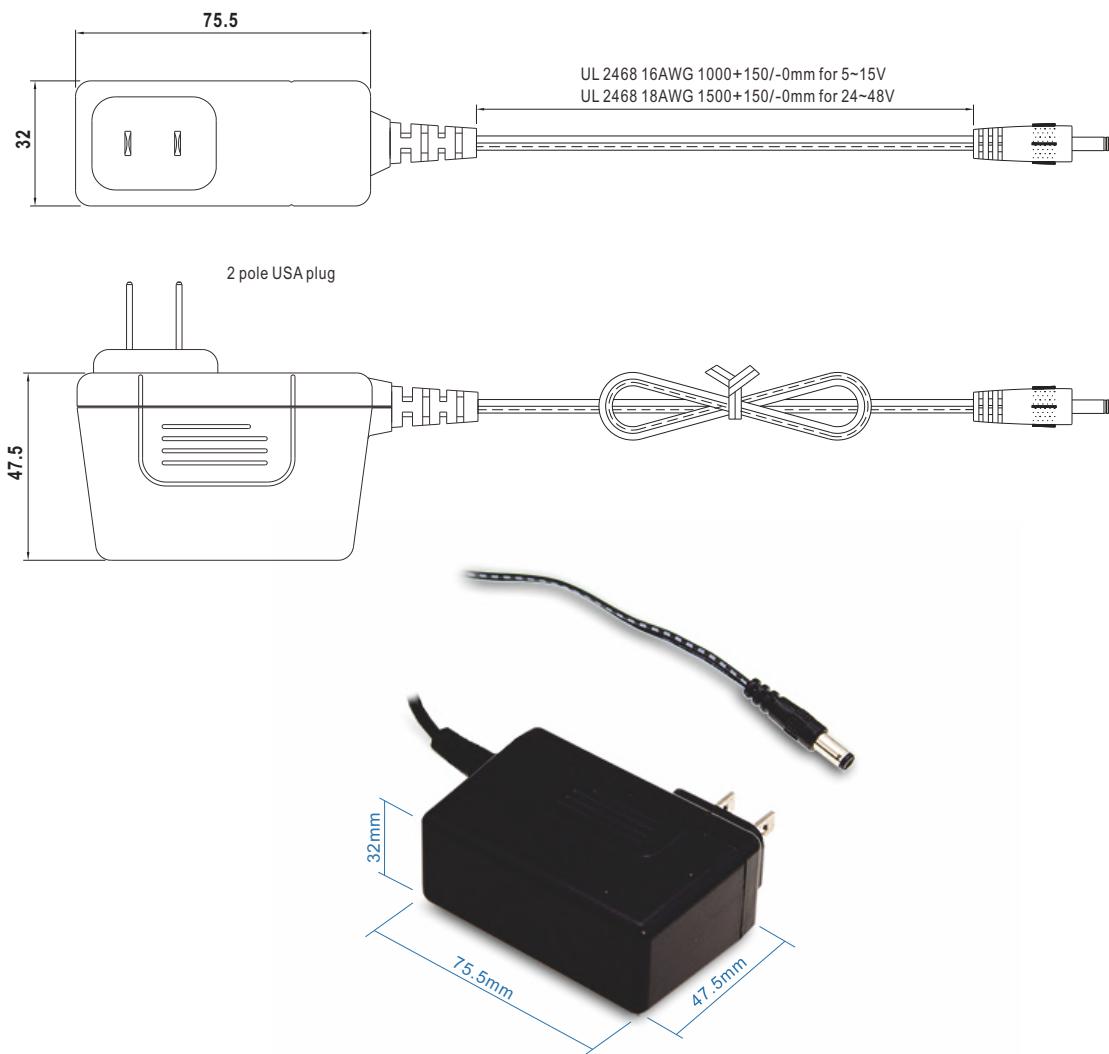
Output voltage
US 2 pin AC plug
Rated wattage
Series name

SPECIFICATION

| ORDER NO. | SGAS60U05-P1J | SGAS60U12-P1J | SGAS60U15-P1J | SGAS60U24-P1J | SGAS60U48-P1J | | | | | | |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------|-------------------|---------------|--|--|--|--|--|--|
| OUTPUT | SAFETY MODEL NO. | SGAS60U05 | SGAS60U12 | SGAS60U15 | SGAS60U24 | | | | | | |
| | DC VOLTAGE Note.2 | 5V | 12V | 15V | 24V | | | | | | |
| | RATED CURRENT | 6A | 5A | 4A | 2.5A | | | | | | |
| | CURRENT RANGE | 0 ~ 6A | 0 ~ 5A | 0 ~ 4A | 0 ~ 2.5A | | | | | | |
| | RATED POWER | 30W | 60W | 60W | 60W | | | | | | |
| | RIPPLE & NOISE (max.) Note.3 | 80mVp-p | 80mVp-p | 80mVp-p | 100mVp-p | | | | | | |
| | VOLTAGE TOLERANCE Note.4 | ±5.0% | ±3.0% | ±3.0% | ±2.0% | | | | | | |
| | LINE REGULATION Note.5 | ±1.0% | ±1.0% | ±1.0% | ±1.0% | | | | | | |
| INPUT | LOAD REGULATION Note.6 | ±5.0% | ±3.0% | ±3.0% | ±2.0% | | | | | | |
| | SETUP, RISE, HOLD UP TIME | 2500ms, 50ms, 10ms/230VAC | 2500ms, 50ms, 10ms/115VAC | at full load | | | | | | | |
| INPUT | VOLTAGE RANGE Note.7 | 90 ~ 264VAC | 127 ~ 370VDC | | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | | |
| | EFFICIENCY (Typ.) | 85% | 88% | 88% | 89% | | | | | | |
| | AC CURRENT | 1.5A / 115VAC | 0.75A / 230VAC | | | | | | | | |
| | INRUSH CURRENT (max.) | Cold start 40A / 115VAC | 80A / 230VAC | | | | | | | | |
| | LEAKAGE CURRENT(max.) | 0.25mA / 240VAC | | | | | | | | | |
| PROTECTION | OVERLOAD | 110 ~ 200% rated output power | | | | | | | | | |
| | | Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | | |
| PROTECTION | OVER VOLTAGE | 110 ~ 140% rated output voltage | | | | | | | | | |
| | | Protection type : Clamp by zener diode, output short | | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -20 ~ +70°C (Refer to "Derating Curve") | | | | | | | | | |
| | WORKING HUMIDITY | 20% ~ 90% RH non-condensing | | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -20 ~ +85°C, 10 ~ 95% RH non-condensing | | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03% / °C (0 ~ 40°C) | | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | | | | | |
| SAFETY & EMC (Note. 8) | SAFETY STANDARDS | UL62368-1, CSA C22.2 NO. 62368-1, EAC TP TC 004 approved | | | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:4242VDC | | | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH | | | | | | | | | |
| | EMC EMISSION | Parameter | Standard | Test Level / Note | | | | | | | |
| | | Conducted emission | FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B) | Class B | | | | | | | |
| | | Radiated emission | FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B) | Class B | | | | | | | |
| OTHERS | LIFE | 3 years : 100% load 40°C, 12hours / day | | | | | | | | | |
| | MTBF | 400Khrs min. MIL-HDBK-217F(25°C) | | | | | | | | | |
| | DIMENSION | 75.5*32*47.5mm (L*W*H) | | | | | | | | | |
| CONNECTOR | PACKING | 200g ; 60pcs / 13kg / CARTON | | | | | | | | | |
| | PLUG | See page 4~5 ; Other type available by customer requested | | | | | | | | | |
| | CABLE | See page 4~5 ; Other type available by customer requested | | | | | | | | | |
| NOTE | 1.All parameters are specified at 115VAC input, rated load, 25°C 70% RH ambient. | | | | | | | | | | |
| | 2.DC voltage: The output voltage set at point measure by plug terminal & 50% load. | | | | | | | | | | |
| | 3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor. | | | | | | | | | | |
| | 4.Tolerance: includes set up tolerance, line regulation, load regulation. | | | | | | | | | | |
| | 5.Line regulation is measured from low line to high line at rated load. | | | | | | | | | | |
| | 6.Load regulation is measured from 0% to 100% rated load | | | | | | | | | | |
| | 7.Derating may be needed under low input voltage. Please check the derating curve for more details. | | | | | | | | | | |
| | 8.The power supply is considered as an independent unit, but the final equipment still need to re-confirmed that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) | | | | | | | | | | |
| | ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx | | | | | | | | | | |

■ Derating Curve

■ Static Characteristics

■ Mechanical Specification

Unit:mm



■ DC output plug

- ◎ Standard plug: P1J

Unit:mm

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

- ◎ 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)

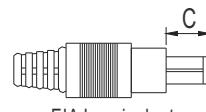
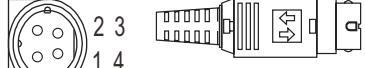
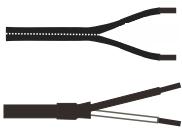
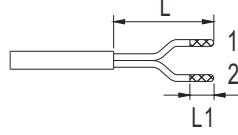
Please refer to below table and online selection guide : https://www.meanwell.com/upload/pdf/DC_plug.pdf

Example quick adapter accessory:



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

| Tuning Fork Style | Type No. | A | B | C | Quick Adapter Accessory |
|--------------------------|------------|----------|------|-------|------------------------------------------|
| | | OD | ID | L | |
| (Straight) | P1I | 5.5 | 2.1 | 9.5 | Available (Current rating: 7.5A max.) |
| | P1L | 5.5 | 2.5 | 9.5 | |
| | P1M | 5.5 | 2.5 | 11.0 | |
| | P1IR | 5.5 | 2.1 | 9.5 | |
| | P1JR | 5.5 | 2.1 | 11.0 | |
| | P1LR | 5.5 | 2.5 | 9.5 | |
| | P1MR | 5.5 | 2.5 | 11.0 | |
| Barrel Style | | Type No. | A | C | None |
| (Straight) | P2I | 5.5 | 2.1 | 9.5 | |
| | P2J | 5.5 | 2.1 | 11.0 | |
| | P2L | 5.5 | 2.5 | 9.5 | |
| | P2M | 5.5 | 2.5 | 11.0 | |
| | P2IR | 5.5 | 2.1 | 9.5 | |
| | P2JR | 5.5 | 2.1 | 11.0 | |
| | P2LR | 5.5 | 2.5 | 9.5 | |
| | P2MR | 5.5 | 2.5 | 11.0 | |
| Lock Style | | Type No. | A | C | None |
| Floating Locking | 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 | C | Available (Current rating: 5A max.) |
| 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 | B | C | D | Quick Adapter Accessory | |
|-------------------------------------------------------------------------------------------|-------------|---------------------------|-----|--------|------------|------------------------------------------|--|
| | | OD | ID | L | Center Pin | | |
|  | P4A | 5.5 | 3.4 | 11.0 | 1.0 | Available (Current rating: 7.5A max.) | |
|  | P4B | 6.5 | 4.4 | 11.0 | 1.4 | | |
| | P4C | 7.4 | 5.1 | 11.0 | 0.6 | | |
| Min. DIN 3 Pin with Lock (male) | Type No. | Pin Assignment | | | | Available (Current rating: 7.5A max.) | |
|  | | PIN No. | | Output | | | |
|  | | 1 | | +Vo | | | |
| | R6B | 2 | | -Vo | | Available (Current rating: 7.5A max.) | |
| | | 3 | | +Vo | | | |
| Min. DIN 4 Pin with Lock (male) | | Pin Assignment | | | | | |
|  | R7B | PIN No. | | Output | | Available (Current rating: 7.5A max.) | |
|  | | 1 | | +Vo | | | |
| | | 2 | | -Vo | | | |
| | | 3 | | -Vo | | | |
| | | 4 | | +Vo | | | |
| Min. DIN 4 Pin with Lock (female) | R7BF | Pin Assignment | | | | None | |
|  | | PIN No. | | Output | | | |
|  | | 1 | | +Vo | | | |
| | | 2 | | -Vo | | | |
| | | 3 | | -Vo | | | |
| | | 4 | | +Vo | | | |
| Stripped and tinned leads | by customer | Pin Assignment | | | | None | |
|  | | PIN No. | | Output | | | |
|  | | 1 (Ribbed or White) | | +Vo | | | |
| Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm) | | 2 (Letter or Black) | | -Vo | | | |

■ Installation Manual

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

Product Change Notice: Output cable change for GEM40/ SGA60/ SGAS60 series



Date : 2022/04/15

By: Frank Chen / Product Manager

Frank@meanwell.com

MEAN WELL has implemented changes to the output cable for part of the models under the following series: GEM40I, SGA60U/E and SGAS60U/E. The wire changes will not affect the characteristics or usage of the products. Implementation of the new version will commence starting April, 2022. Please note a conversion period with both old and new versions is expected, but the price remains the same. Please refer to the latest specifications on our website, or you can contact MEAN WELL's business representative.

Change in effect: 2022.04

Affected models:

GEM40I05-P1J

SGA60U05/07/09-P1J、SGA60E05/07/09-P1J

SGAS60U05-P1J、SGAS60E05-P1J

Change illustrations:

Difference between 2 versions

Old Version

UL 1571 @14AWG
(Thicker cable with round shape)



New Version

UL 2468 @16AWG
(Thinner cable with flat shape)

