

■ Features

- Ultra slim
- Universal AC input / Full range
- 2 pole EURO plug, Class II power unit
- No load power consumption<0.075W
- **Energy efficiency Level VI**
- Comply with EU ErP and meet CoC version 5
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- Pass LPS
- 54V model available for PoE(optional)
- **Various DC plug quick adapter accessory available**
(Plug kit sold sperately, 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

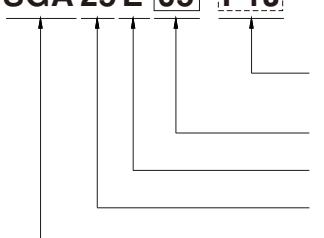
■ Description

SGA25E is a 25W ultra slim wall-mounted style single-output green adaptor series, which is compact and convenient for carry. SGA25E is a class II power unit (no FG) equipped with the standard 2-Pin European 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 89% and the extremely low no-load power consumption below 0.075W, SGA25E is compliant with EU ErP and meet CoC version 5. 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

SGA 25 E 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
European 2 pin AC plug
Rated wattage
Series name

SPECIFICATION

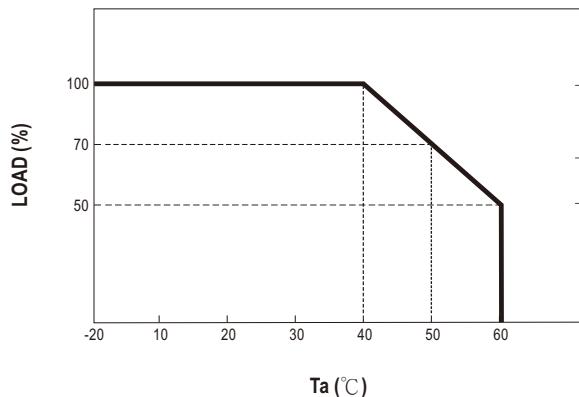
| ORDER NO. | SGA25E05-P1J | SGA25E07-P1J | SGA25E09-P1J | SGA25E12-P1J | SGA25E15-P1J | SGA25E18-P1J | SGA25E24-P1J | SGA25E48-P1J | | | | | | | | | | | | | | | |
|---|------------------------------|--|---|--|--------------|--|--------------|--------------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| OUTPUT | SAFETY MODEL NO. | SGA25E05 | SGA25E07 | SGA25E09 | SGA25E12 | SGA25E15 | SGA25E18 | SGA25E24 | SGA25E48 | | | | | | | | | | | | | | |
| | DC VOLTAGE Note.2 | 5V | 7.5V | 9V | 12V | 15V | 18V | 24V | 48V | | | | | | | | | | | | | | |
| | RATED CURRENT | 4A | 2.93A | 2.77A | 2.08A | 1.66A | 1.38A | 1.04A | 0.52A | | | | | | | | | | | | | | |
| | CURRENT RANGE | 0 ~ 4A | 0 ~ 2.93A | 0 ~ 2.77A | 0 ~ 2.08A | 0 ~ 1.66A | 0 ~ 1.38A | 0 ~ 1.04A | 0 ~ 0.52A | | | | | | | | | | | | | | |
| | RATED POWER (max.) | 20W | 22W | 25W | 25W | 25W | 25W | 25W | 25W | | | | | | | | | | | | | | |
| | ripple & noise (max.) Note.3 | 80mVp-p | 80mVp-p | 80mVp-p | 80mVp-p | 80mVp-p | 80mVp-p | 80mVp-p | 120mVp-p | | | | | | | | | | | | | | |
| | VOLTAGE TOLERANCE Note.4 | ±5.0% | ±5.0% | ±5.0% | ±3.0% | ±3.0% | ±3.0% | ±2.0% | ±2.0% | | | | | | | | | | | | | | |
| | LINE REGULATION Note.5 | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | | | | | | | | | | | | | | |
| | LOAD REGULATION Note.6 | ±5.0% | ±5.0% | ±5.0% | ±3.0% | ±3.0% | ±3.0% | ±2.0% | ±2.0% | | | | | | | | | | | | | | |
| SETUP, RISE, HOLD UP TIME | | 1500ms, 60ms, 10ms/230VAC | | | | 1500ms, 60ms, 10ms/115VAC at full load | | | | | | | | | | | | | | | | | |
| INPUT | VOLTAGE RANGE | 90 ~ 264VAC | | | | | | | | | | | | | | | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | | | | | | | | | | | | | | |
| | EFFICIENCY (Typ.) | 81% | 85% | 85.5% | 87% | 87% | 87.5% | 87.5% | 89% | | | | | | | | | | | | | | |
| | AC CURRENT | 0.7A / 115VAC | 0.35A / 230VAC | | | | | | | | | | | | | | | | | | | | |
| | INRUSH CURRENT (max.) | Cold start 40A / 115VAC | | 60A / 230VAC | | | | | | | | | | | | | | | | | | | |
| PROTECTION | LEAKAGE CURRENT(max.) | 0.25mA / 240VAC | | | | | | | | | | | | | | | | | | | | | |
| | OVERLOAD | 120 ~ 180% rated output power | | | | | | | | | | | | | | | | | | | | | |
| | | Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | | | | | | | | | | | | | | |
| | OVER VOLTAGE | 110 ~ 140% rated output voltage | | | | | | | | | | | | | | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -20 ~ +60°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. 7) | SAFETY STANDARDS | TUV BS EN/EN62368-1, 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 | BS EN/EN55032(CISPR32) | Class B | | | | | | | | | | | | | | | | | | | |
| | | Radiated emission | BS EN/EN55032(CISPR32) | Class B | | | | | | | | | | | | | | | | | | | |
| | | Harmonic current | BS EN/EN61000-3-2 | Class A | | | | | | | | | | | | | | | | | | | |
| | EMC IMMUNITY | Voltage flicker | BS EN/EN61000-3-3 | ----- | | | | | | | | | | | | | | | | | | | |
| | | Parameter | Standard | Test Level / Note | | | | | | | | | | | | | | | | | | | |
| | | ESD | BS EN/EN61000-4-2 | Level 3, 8KV air; Level 2, 4KV 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/L-N | | | | | | | | | | | | | | | | | | | |
| | | Conducted susceptibility | BS EN/EN61000-4-6 | Level 2, 3V | | | | | | | | | | | | | | | | | | | |
| OTHERS | Magnetic field immunity | BS EN/EN61000-4-8 | Level 1, 1A/m | | | | | | | | | | | | | | | | | | | | |
| | Voltage dips , interruption | BS EN/EN61000-4-11 | >95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods | | | | | | | | | | | | | | | | | | | | |
| CONNECTOR | LIFE | 3 years : 100% load 40°C, 8hours / day | | | | | | | | | | | | | | | | | | | | | |
| | MTBF | 450Khrs min. MIL-HDBK-217F(25°C) | | | | | | | | | | | | | | | | | | | | | |
| DIMENSION | DIMENSION | 75.5*32*47.5mm (L*W*H) | | | | | | | | | | | | | | | | | | | | | |
| | PACKING | 158g ; 60pcs / 10.5kg / CARTON | | | | | | | | | | | | | | | | | | | | | |
| NOTE | PLUG | See page 4~5 ; Other type available by customer requested | | | | | | | | | | | | | | | | | | | | | |
| | CABLE | See page 4~5 ; Other type available by customer requested | | | | | | | | | | | | | | | | | | | | | |
| 1.All parameters are specified at 230VAC 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 10% to 100% rated load. 7.The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) | | | | | | | | | | | | | | | | | | | | | | | |
| ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx | | | | | | | | | | | | | | | | | | | | | | | |



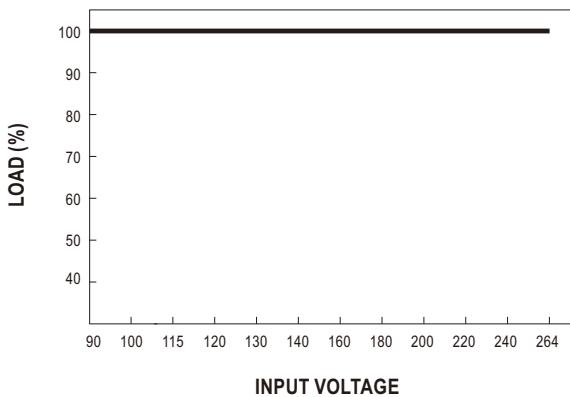
25W AC-DC High Reliability Slim Wall-mounted Adaptor

SGA25E series

■ Derating Curve

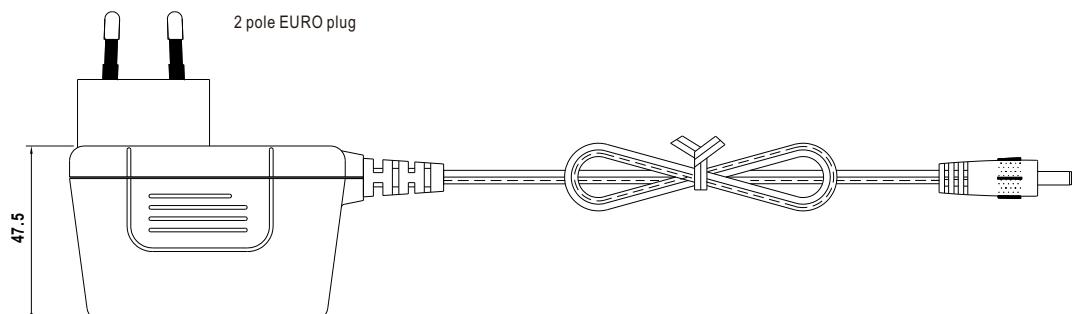
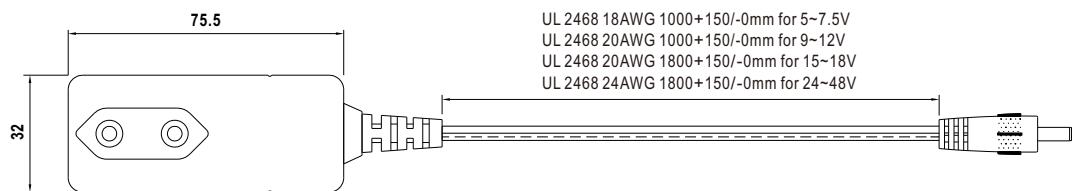


■ Static Characteristics



■ Mechanical Specification

Unit:mm



■ DC output plug

- ◎ Standard plug: P1J

Unit:mm

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

- ◎ DC plug changeable through:

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

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

Example quick adapter accessory:



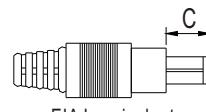
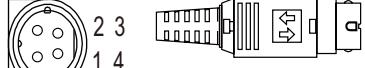
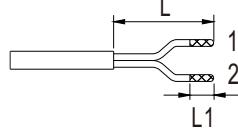
- ◎ Optional DC plug: (Available in customized cable or quick adapter)

| 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 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 | 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 | |



25WAC-DC High Reliability Slim Wall-mounted Adaptor

SGA25E series

| 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) | | +Vo | | | |
| Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm) | | 2 (Letter) | | -Vo | | | |

■ Installation Manual

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