



■ **Features**

- Ultra slim
- Universal AC input / Full range
- 2 pole EURO plug
- No load power consumption <0.075W
- **Energy efficiency Level VI**
- Comply with EU ErP and meet CoC version 5
- Class II power (without earth pin)
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- Pass LPS
- LED indicator for power on
- 3 years warranty

■ **Applications**

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

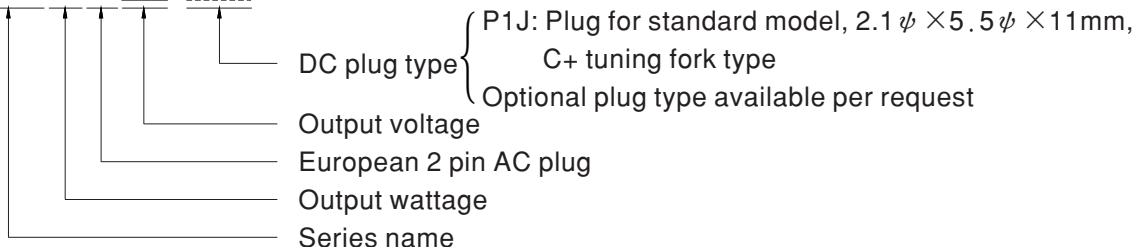
■ **Description**

SGA18E is a 18W ultra slim wall-mounted style single-output green adaptor series, which is compact and convenient for carry. SGA18E is a class II power unit (without FG) equipped with the standard 2-Pole 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 87.5% and the extremely low no-load power consumption below 0.075W, SGA18E 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 18 E 05 -P1J**

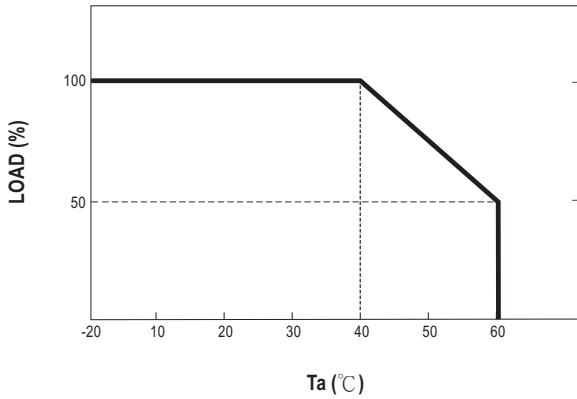




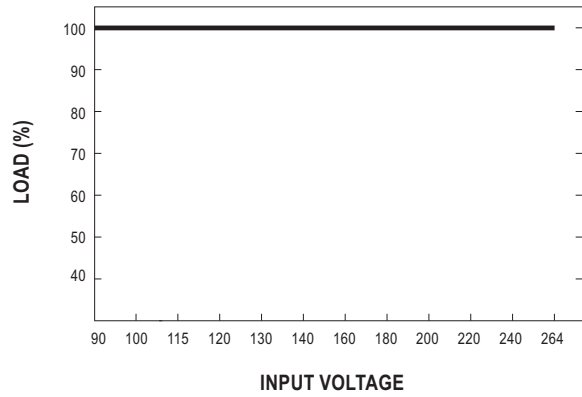
**SPECIFICATION**

| ORDER NO.                 | SGA18E05-P1J  | SGA18E09-P1J  | SGA18E12-P1J | SGA18E15-P1J  | SGA18E18-P1J | SGA18E24-P1J | SGA18E48-P1J |            |
|---------------------------|---|---|--------------|---------------|--------------|--------------|--------------|------------|
| OUTPUT                    | SAFETY MODEL NO.  | SGA18E05  | SGA18E09     | SGA18E12      | SGA18E15     | SGA18E18     | SGA18E24     | SGA18E48   |
|                           | DC VOLTAGE <span style="float:right">Note.2</span>  | 5V  | 9V           | 12V           | 15V          | 18V          | 24V          | 48V        |
|                           | RATED CURRENT   | 3A  | 2A           | 1.5A          | 1.2A         | 1A           | 0.75A        | 0.375A     |
|                           | CURRENT RANGE   | 0 ~ 3A  | 0 ~ 2A       | 0 ~ 1.5A      | 0 ~ 1.2A     | 0 ~ 1A       | 0 ~ 0.75A    | 0 ~ 0.375A |
|                           | RATED POWER (max.)  | 15W   | 18W          | 18W           | 18W          | 18W          | 18W          | 18.2W      |
|                           | RIPPLE & NOISE (max.) <span style="float:right">Note.3</span>   | 80mVp-p   | 80mVp-p      | 80mVp-p       | 80mVp-p      | 80mVp-p      | 100mVp-p     | 120mVp-p   |
|                           | VOLTAGE TOLERANCE <span style="float:right">Note.4</span>   | ± 5.0%  | ± 5.0%       | ± 3.0%        | ± 3.0%       | ± 3.0%       | ± 2.0%       | ± 2.0%     |
|                           | LINE REGULATION <span style="float:right">Note.5</span>   | ± 1.0%  | ± 1.0%       | ± 1.0%        | ± 1.0%       | ± 1.0%       | ± 1.0%       | ± 1.0%     |
|                           | LOAD REGULATION <span style="float:right">Note.6</span>   | ± 5.0%  | ± 5.0%       | ± 3.0%        | ± 3.0%       | ± 3.0%       | ± 2.0%       | ± 2.0%     |
| SETUP, RISE, HOLD UP TIME | 300ms, 30ms, 16ms/230VAC      300ms, 30ms, 16ms/115VAC at full load   |   |              |               |              |              |              |            |
| INPUT                     | VOLTAGE RANGE <span style="float:right">Note.7</span>   | 90 ~ 264VAC   |              |               |              |              |              |            |
|                           | FREQUENCY RANGE   | 47 ~ 63Hz   |              |               |              |              |              |            |
|                           | EFFICIENCY (Typ.)   | 81.5%   | 85.5%        | 85.5%         | 85.5%        | 86%          | 86.5%        | 87.5%      |
|                           | AC CURRENT  | 0.45A / 115VAC  |              | 0.2A / 230VAC |              |              |              |            |
|                           | INRUSH CURRENT (max.)   | 30A / 115VAC  |              | 45A / 230VAC  |              |              |              |            |
|                           | LEAKAGE CURRENT(max.)   | 0.25mA / 240VAC   |              |               |              |              |              |            |
| PROTECTION                | OVERLOAD  | 120 ~ 180% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |              |               |              |              |              |            |
|                           | OVER VOLTAGE  | 110 ~ 140% rated output voltage<br>Protection type : Clamp by zener diode, output short                                 |              |               |              |              |              |            |
|                           | WORKING TEMP.   | -20 ~ +60°C (Refer to "Derating Curve")   |              |               |              |              |              |            |
| ENVIRONMENT               | WORKING HUMIDITY  | 20% ~ 90% RH non-condensing   |              |               |              |              |              |            |
|                           | STORAGE TEMP., HUMIDITY   | -20 ~ +85°C, 10 ~ 95% RH  |              |               |              |              |              |            |
|                           | 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<br>(Note. 8) | SAFETY STANDARDS  | TUV EN60950-1 approved  |              |               |              |              |              |            |
|                           | WITHSTAND VOLTAGE   | I/P-O/P:4242VDC   |              |               |              |              |              |            |
|                           | ISOLATION RESISTANCE  | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH  |              |               |              |              |              |            |
|                           | EMC EMISSION  | Compliance to EN55022 class B, EN61000-3-2,3  |              |               |              |              |              |            |
|                           | EMC IMMUNITY  | Compliance to EN61000-4,-2,3,4,5,6,8,11, light industry level, criteria A   |              |               |              |              |              |            |
| OTHERS                    | LIFE  | 3 years : 100% load 40°C, 8hours / day  |              |               |              |              |              |            |
|                           | MTBF  | 450Khrs min. MIL-HDBK-217F(25°C)  |              |               |              |              |              |            |
|                           | DIMENSION   | 75.5*32*47.5mm (L*W*H)  |              |               |              |              |              |            |
|                           | PACKING   | 150g ; 60pcs / 10kg / CARTON  |              |               |              |              |              |            |
| CONNECTOR                 | PLUG  | See page 3 ; Other type available by customer requested   |              |               |              |              |              |            |
|                           | CABLE   | See page 3 ; Other type available by customer requested   |              |               |              |              |              |            |
| NOTE                      | <p>1.All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.</p> <p>2.DC voltage: The output voltage set at point measure by plug terminal &amp; 50% load.</p> <p>3.Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf &amp; 47uf capacitor.</p> <p>4.Tolerance: includes set up tolerance, line regulation, load regulation.</p> <p>5.Line regulation is measured from low line to high line at rated load.</p> <p>6.Load regulation is measured from 10% to 100% rated load.</p> <p>7.Derating may be needed under low input voltages. Please check the static characteristics for more details.</p> <p>8.The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</p> |   |              |               |              |              |              |            |

### Derating Curve

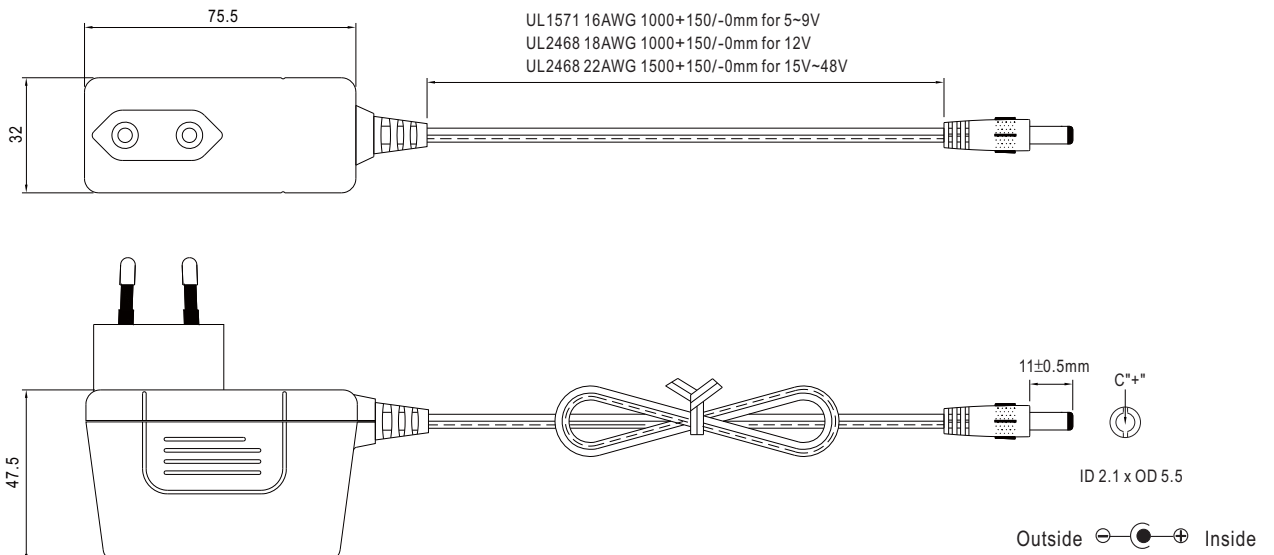


### Static Characteristics



### Mechanical Specification

Unit:mm



### Plug Assignment

Standard plug: P1J

| P1J    |        |
|--------|--------|
| P/N    | OUTPUT |
| CENTER | +      |

### Installation Manual

Please refer to : <http://www.meanwell.com/webnet/search/InstallationSearch.html>