



( Cable connection )



( USB connection )


**CB CE VI**

EN60950-1

IEC60950-1

## 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
- 3 years warranty

## Description

SGA12E is a 12W ultra slim wall-mounted style single-output green adaptor series, which is compact and convenient for carry. SGA12E 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 86% and the extremely low no-load power consumption below 0.075W, SGA12E 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 12 E 05 -P1J**

- |   |   |   |                        |                                                                                                                                                                                                                      |
|---|---|---|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ↑ | ↑ | ↑ | ↑                      | ↑                                                                                                                                                                                                                    |
|   |   |   |                        | DC plug type                                                                                                                                                                                                         |
|   |   |   |                        | { P1J: Plug for standard model, 2.1 $\psi$ $\times$ 5.5 $\psi$ $\times$ 11mm,<br>C+ tuning fork type<br>USB: USB (type A) for 5V standard model only<br>Other options available by customer requested (see Page 4~5) |
|   |   |   | Output voltage         |                                                                                                                                                                                                                      |
|   |   |   | European 2 pin AC plug |                                                                                                                                                                                                                      |
|   |   |   | Rated wattage          |                                                                                                                                                                                                                      |
|   |   |   | Series name            |                                                                                                                                                                                                                      |



## Applications

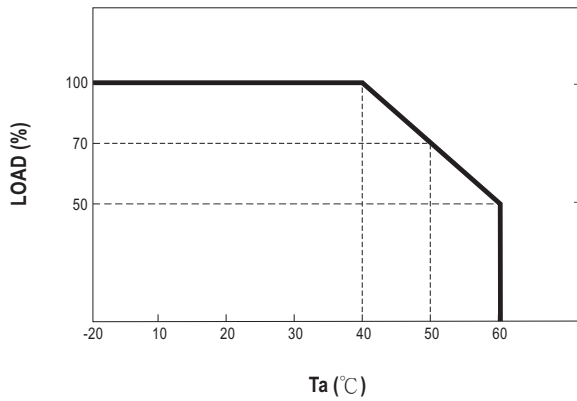
- Consumer electronic devices
- Telecommunication devices
- Office facilities
- Industrial equipments



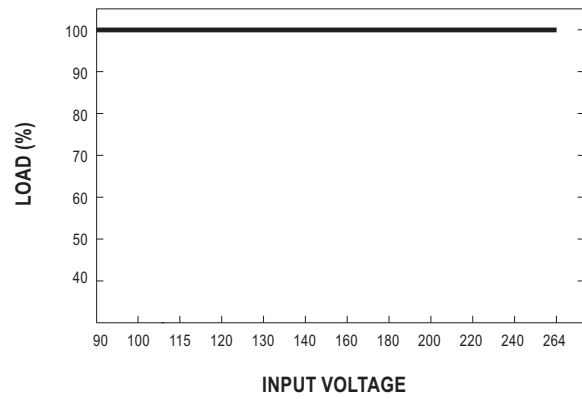
## SPECIFICATION

| ORDER NO.                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SGA12E05- <div><div></div><div>=P1J, USB</div></div>                    | SGA12E07-P1J     | SGA12E09-P1J                          | SGA12E12-P1J | SGA12E15-P1J | SGA12E18-P1J                                                              | SGA12E24-P1J                  | SGA12E48-P1J |  |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------|---------------------------------------|--------------|--------------|---------------------------------------------------------------------------|-------------------------------|--------------|--|
| OUTPUT                            | SAFETY MODEL NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SGA12E05                                                                | SGA12E07         | SGA12E09                              | SGA12E12     | SGA12E15     | SGA12E18                                                                  | SGA12E24                      | SGA12E48     |  |
|                                   | DC VOLTAGE <div>Note.2</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5V                                                                      | 7.5V             | 9V                                    | 12V          | 15V          | 18V                                                                       | 24V                           | 48V          |  |
|                                   | RATED CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2.4A                                                                    | 1.6A             | 1.33A                                 | 1A           | 0.8A         | 0.666A                                                                    | 0.5A                          | 0.25A        |  |
|                                   | CURRENT RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0 ~ 2.4A                                                                | 0 ~ 1.6A         | 0 ~ 1.33A                             | 0 ~ 1A       | 0 ~ 0.8A     | 0 ~ 0.666A                                                                | 0 ~ 0.5A                      | 0 ~ 0.25A    |  |
|                                   | RATED POWER (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12W                                                                     | 12W              | 12W                                   | 12W          | 12W          | 12W                                                                       | 12W                           | 12W          |  |
|                                   | RIPPLE & NOISE (max.) <div>Note.3</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 50mVp-p                                                                 | 50mVp-p          | 80mVp-p                               | 80mVp-p      | 80mVp-p      | 80mVp-p                                                                   | 100mVp-p                      | 100mVp-p     |  |
|                                   | VOLTAGE TOLERANCE <div>Note.4</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ± 5.0%                                                                  | ± 5.0%           | ± 5.0%                                | ± 3.0%       | ± 3.0%       | ± 3.0%                                                                    | ± 2.0%                        | ± 2.0%       |  |
|                                   | LINE REGULATION <div>Note.5</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ± 1.0%                                                                  | ± 1.0%           | ± 1.0%                                | ± 1.0%       | ± 1.0%       | ± 1.0%                                                                    | ± 1.0%                        | ± 1.0%       |  |
|                                   | LOAD REGULATION <div>Note.6</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ± 5.0%                                                                  | ± 5.0%           | ± 5.0%                                | ± 3.0%       | ± 3.0%       | ± 3.0%                                                                    | ± 2.0%                        | ± 2.0%       |  |
| SETUP, RISE, HOLD UP TIME         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1300ms, 50ms, 12ms/230VAC      1300ms, 50ms, 12ms/115VAC at full load   |                  |                                       |              |              |                                                                           |                               |              |  |
| INPUT                             | VOLTAGE RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 90 ~ 264VAC                                                             |                  |                                       |              |              |                                                                           |                               |              |  |
|                                   | FREQUENCY RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 47 ~ 63Hz                                                               |                  |                                       |              |              |                                                                           |                               |              |  |
|                                   | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 80%                                                                     | 83%              | 83%                                   | 83%          | 84.5%        | 85%                                                                       | 85%                           | 86%          |  |
|                                   | AC CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.5A / 115VAC      0.25A / 230VAC                                       |                  |                                       |              |              |                                                                           |                               |              |  |
|                                   | INRUSH CURRENT (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cold start 30A / 115VAC      60A / 230VAC                               |                  |                                       |              |              |                                                                           |                               |              |  |
|                                   | LEAKAGE CURRENT(max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.25mA / 240VAC                                                         |                  |                                       |              |              |                                                                           |                               |              |  |
| PROTECTION                        | OVERLOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 110 ~ 200% rated output power                                           |                  |                                       |              |              |                                                                           | 150 ~ 250% rated output power |              |  |
|                                   | Protection type : Hiccup mode, recovers automatically after fault condition is removed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                         |                  |                                       |              |              |                                                                           |                               |              |  |
|                                   | OVER VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 110 ~ 140% rated output voltage                                         |                  |                                       |              |              |                                                                           |                               |              |  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Protection type : Clamp by zener diode, output short                    |                  |                                       |              |              |                                                                           |                               |              |  |
| ENVIRONMENT                       | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -20 ~ +60℃ (Refer to "Derating Curve")                                  |                  |                                       |              |              |                                                                           |                               |              |  |
|                                   | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 20% ~ 90% RH non-condensing                                             |                  |                                       |              |              |                                                                           |                               |              |  |
|                                   | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -20 ~ +85℃, 10 ~ 95% RH non-condensing                                  |                  |                                       |              |              |                                                                           |                               |              |  |
|                                   | TEMP. COEFFICIENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ±0.03% / °C (0 ~ 40℃)                                                   |                  |                                       |              |              |                                                                           |                               |              |  |
|                                   | VIBRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes |                  |                                       |              |              |                                                                           |                               |              |  |
| SAFETY & EMC <div>(Note. 7)</div> | SAFETY STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TUV EN60950-1 approved                                                  |                  |                                       |              |              |                                                                           |                               |              |  |
|                                   | WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | I/P-O/P:4242VDC                                                         |                  |                                       |              |              |                                                                           |                               |              |  |
|                                   | ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | I/P-O/P:100M Ohms / 500VDC / 25℃/ 70% RH                                |                  |                                       |              |              |                                                                           |                               |              |  |
|                                   | EMC EMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Parameter                                                               | Standard         |                                       |              |              | Test Level / Note                                                         |                               |              |  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Conducted emission                                                      | EN55032(CISPR32) |                                       |              |              | Class B                                                                   |                               |              |  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Radiated emission                                                       | EN55032(CISPR32) |                                       |              |              | Class B                                                                   |                               |              |  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Harmonic current                                                        | EN61000-3-2      |                                       |              |              | Class A                                                                   |                               |              |  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Voltage flicker                                                         | EN61000-3-3      |                                       |              |              | -----                                                                     |                               |              |  |
|                                   | EMC IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Parameter                                                               | Standard         |                                       |              |              | Test Level /Note                                                          |                               |              |  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ESD                                                                     | EN61000-4-2      |                                       |              |              | Level 3, 8KV air; Level 2, 4KV contact                                    |                               |              |  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RF field susceptibility                                                 | EN61000-4-3      |                                       |              |              | Level 2, 3V/m                                                             |                               |              |  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EFT bursts                                                              | EN61000-4-4      |                                       |              |              | Level 2, 1KV                                                              |                               |              |  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Surge susceptibility                                                    | EN61000-4-5      |                                       |              |              | Level 3, 1KV/L-N                                                          |                               |              |  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Conducted susceptibility                                                | EN61000-4-6      |                                       |              |              | Level 2, 3V                                                               |                               |              |  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Magnetic field immunity                                                 | EN61000-4-8      |                                       |              |              | Level 1, 1A/m                                                             |                               |              |  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Voltage dips , interruption                                             | EN61000-4-11     |                                       |              |              | >95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods |                               |              |  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | OTHERS                                                                  | LIFE             | 3 years : 100% load 40℃, 8hours / day |              |              |                                                                           |                               |              |  |
| MTBF                              | 265Khrs min. MIL-HDBK-217F(25℃)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                         |                  |                                       |              |              |                                                                           |                               |              |  |
| DIMENSION                         | 62.2*27.4*39.7mm (L*W*H)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                         |                  |                                       |              |              |                                                                           |                               |              |  |
| PACKING                           | 100g ; 90pcs / 10kg / CARTON for cable connection ; 59.5g ; 90pcs / 8kg / CARTON for USB connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                         |                  |                                       |              |              |                                                                           |                               |              |  |
| CONNECTOR                         | 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 230VAC input, rated load, 25℃ 70% RH ambient.<br>2.DC voltage: The output voltage set at point measure by plug terminal & 50% load.<br>3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1μf & 47μf capacitor.<br>4.Tolerance: includes set up tolerance, line regulation, load regulation.<br>5.Line regulation is measured from low line to high line at rated load.<br>6.Load regulation is measured from 10% to 100% rated load<br>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."<br>(as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a> ) |                                                                         |                  |                                       |              |              |                                                                           |                               |              |  |

### Derating Curve



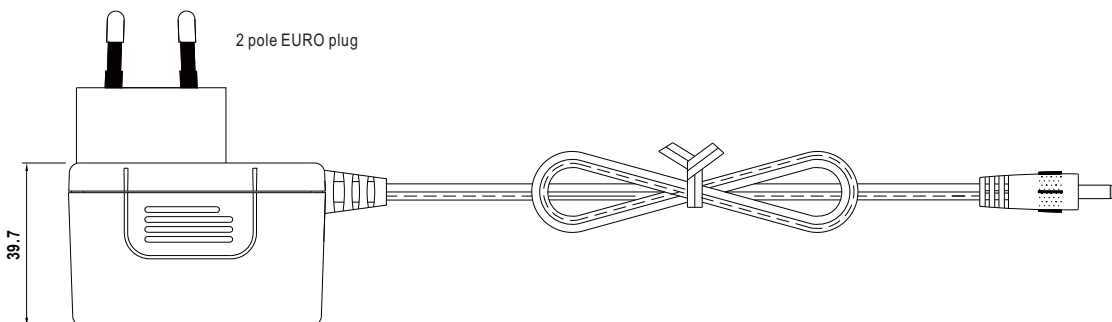
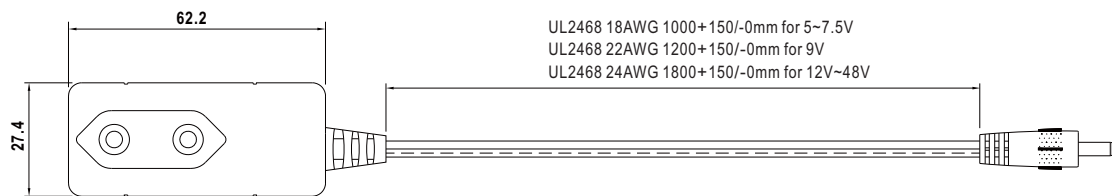
### Static Characteristics



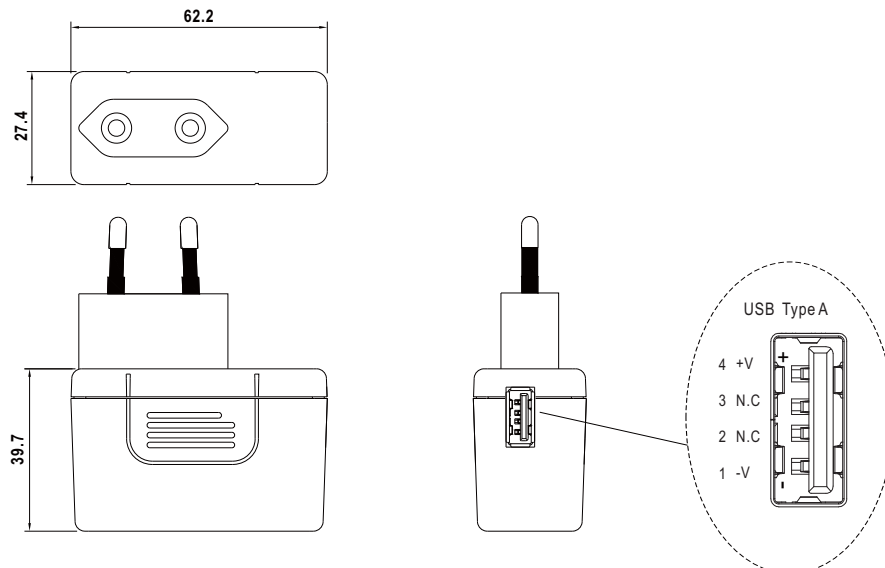
### Mechanical Specification

Unit:mm

#### ※ Cable Connection



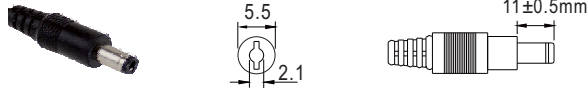
#### ※ USB Connection



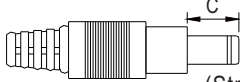
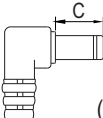
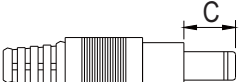
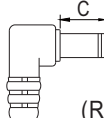
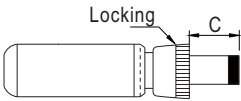
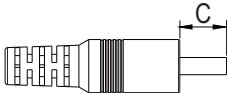
### DC output plug

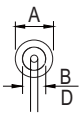
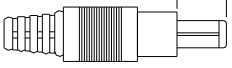
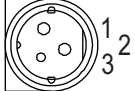
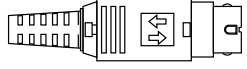
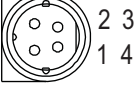
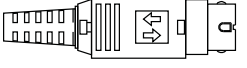
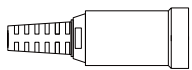
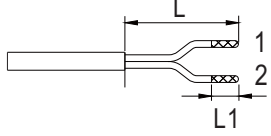
Standard plug: P1J

Unit:mm

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

Optional DC plug:

| Tuning Fork Style                                                                   |                                                                                                                           | Type No.   | A<br>OD | B<br>ID | C<br>L |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------|---------|---------|--------|
|   | <br>(Straight)                           | P1I        | 5.5     | 2.1     | 9.5    |
|                                                                                     |                                                                                                                           | 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 |
|  | <br>(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   |
|                                                                                     | <br>(Right-angled)                     | 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 |
|  | <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 |
|  | <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               | B      | C    | D          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|--------|------|------------|
|                                                                                                                                                                                                                                                                                            |             | OD              | ID     | L    | Center Pin |
|   <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  |        |      |            |
|   <br>KYCON KPPX-3P equivalent          | R6B         | PIN No.         | Output |      |            |
|                                                                                                                                                                                                                                                                                            |             | 1               | +Vo    |      |            |
|                                                                                                                                                                                                                                                                                            |             | 2               | -Vo    |      |            |
|                                                                                                                                                                                                                                                                                            |             | 3               | +Vo    |      |            |
| Min. DIN 4 Pin with Lock (male)                                                                                                                                                                                                                                                            | Type No.    | Pin Assignment  |        |      |            |
|   <br>KYCON KPPX-4P equivalent          | R7B         | PIN No.         | Output |      |            |
|                                                                                                                                                                                                                                                                                            |             | 1               | +Vo    |      |            |
|                                                                                                                                                                                                                                                                                            |             | 2               | -Vo    |      |            |
|                                                                                                                                                                                                                                                                                            |             | 3               | -Vo    |      |            |
|                                                                                                                                                                                                                                                                                            |             | 4               | +Vo    |      |            |
| Min. DIN 4 Pin with Lock (female)                                                                                                                                                                                                                                                          | Type No.    | Pin Assignment  |        |      |            |
|   <br>KYCON KPJX-CM-4S equivalent | R7BF        | PIN No.         | Output |      |            |
|                                                                                                                                                                                                                                                                                            |             | 1               | +Vo    |      |            |
|                                                                                                                                                                                                                                                                                            |             | 2               | -Vo    |      |            |
|                                                                                                                                                                                                                                                                                            |             | 3               | -Vo    |      |            |
|                                                                                                                                                                                                                                                                                            |             | 4               | +Vo    |      |            |
| Stripped and tinned leads                                                                                                                                                                                                                                                                  | Type No.    | Pin Assignment  |        |      |            |
|  <br>Length of Land L1 by request<br>(MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)                       | by customer | PIN No.         | Output |      |            |
|                                                                                                                                                                                                                                                                                            |             | 1<br>( Ribbed ) | +Vo    |      |            |
|                                                                                                                                                                                                                                                                                            |             | 2<br>( Letter ) | -Vo    |      |            |

### ■ Installation Manual

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