



₩ 🗆 SELV 🕞 [H[C € CA

(Wall-Mounted EU type)







- . Class II/2 power unit, no FG
- · Built-in active PFC function with EN61347-1 regulation
- Constant voltage design
- · Protections: Short circuit / Over load / Over voltage
- · Cooling by free air convection
- No load power consumption<0.5W

· 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





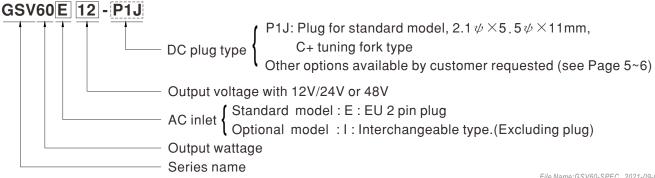
Applications

- · LED strip lighting
- · Indoor LED lighting
- LED decorative lighting
- · Commercial lighting
- · Mirror lighting
- Table light
- · Portable lighting

Description

GSV60 series is a 60W external wall-mounted LED power supply with PFC function. The design of this product is based on the "plug and play" concept for adaptors. The AC input side exploits the 2-Pole (Class ${
m II}$, no FG) standard plug, and the output side is equipped with the highly accepted DC connector (2.1x5.5x11mm) in the market. This product accepts 180~264VAC input and offers constant voltage output with 12V/24V or 48V. The design complies with the lighting requirements of EMI BS EN/EN55015 and the harmonic current demand according to BS EN/EN61000-3-2 Class C. In addition, the no load power consumption is less than 0.5W, making GSV60 conform to the ErP regulation required by European Union for lighting systems as well.

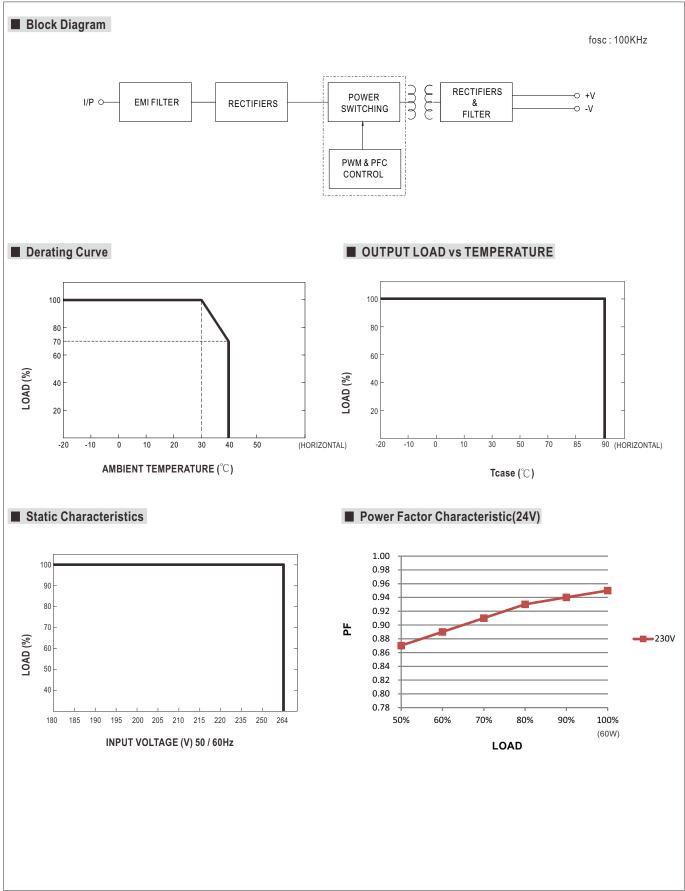
Model Encoding



SPECIFICATION

| MODEL | | GSV60E 12-P1J | GSV60E 24-P1J | GSV60E 48-P1J | | | | | |
|-------------|---|---|-------------------|-------------------|--|--|--|--|--|
| | DC VOLTAGE | 12V | 24V | 48V | | | | | |
| OUTPUT | OPEN CIRCUIT VOLTAGE | <15V | <28V | <57V | | | | | |
| | RATED CURRENT | 4.16A | 2.5A | 1.25A | | | | | |
| | RATED POWER | 50W | 60W | 60W | | | | | |
| | RIPPLE & NOISE (max.) Note.2 | 3Vp-p max. | 4.5Vp-p max. | 6.5Vp-p max. | | | | | |
| | VOLTAGE TOLERANCE Note.3 | ±1.5V | ±2.25V | ±4.5V | | | | | |
| | LINE REGULATION | ±2.0% | ±2.0% | ±2.0% | | | | | |
| | NO LOAD CONSUMPTION | 0.5W max. | | | | | | | |
| | SETUP UP TIME | 500ms/230VAC at full load | | | | | | | |
| | VOLTAGE RANGE | 180 ~ 264VAC 255 ~ 373VDC | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | |
| | POWER FACTOR (Typ.) | PF>0.92/230VAC at full load (Please refer to "Power Factor Characteristic" curve) | | | | | | | |
| | TOTAL HARMONIC DISTORTION | | | | | | | | |
| INPUT | EFFICIENCY (Typ.) | 85% min. @ 230VAC | 86% min. @ 230VAC | 89% min. @ 230VAC | | | | | |
| | AC CURRENT (Typ.) | 0.5A/230VAC | | 0.5A/230VAC | | | | | |
| | INRUSH CURRENT(max.) | COLD START 20A(twidth=200µs measured at 50% lpeak) at 230VAC | | | | | | | |
| | LEAKAGE CURRENT | <0.25mA max. @ 230VAC | | | | | | | |
| | | 105 ~ 160% rated output power | | | | | | | |
| | OVER LOAD | Protection type: Hiccup mode, recovers automatically after fault condition is removed | | | | | | | |
| PROTECTION | | 15.6V ~ 18V | 28V ~ 32.4V | 57.6V ~ 72V | | | | | |
| | OVER VOLTAGE | Protection type : Clamp by zener diode, or | | | | | | | |
| | SHORT CIRCUIT | Hiccup mode, recovers automatically after fault condition is removed | | | | | | | |
| | WORKING TEMP. | -20 ~ +40°C (Refer to "Derating Curve") | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 95% RH non-condensing | | | | | | | |
| ENVIRONMENT | STORAGE TEMP., HUMIDITY | -30 ~ +80°C, 10 ~ 95% RH | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (-20 ~ 40°C) | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes | | | | | | | |
| | SAFETY STANDARDS | LVD BS EN/EN61347-1, BS EN/EN61347-2-13, EAC TP TC 004 approved | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-0/P:3.75KVAC | | | | | | | |
| SAFETY & | ISOLATION RESISTANCE | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH | | | | | | | |
| EMC | EMC EMISSION | Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (100% load); BS EN/EN61000-3-3, EAC TP TC 020 | | | | | | | |
| | EMC IMMUNITY | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level, criteria A, EAC TP TC 020 | | | | | | | |
| OTHERS | MTBF | 450K hrs min. MIL-HDBK-217F (25°C) | | | | | | | |
| | DIMENSION | E:75.5*32*47.5 mm(L*W*H); 1:75.5*39.1*56.2 mm(L*W*H) | | | | | | | |
| | PACKING | E: 240g; 60pcs / 15.5kg / CARTON; I: 200g; 60pcs / 13.5kg / CARTON | | | | | | | |
| | PLUG | See page 5~6; Other type available by customer requested | | | | | | | |
| CONNECTOR | CABLE | See page 5 %; Other type available by customer requested | | | | | | | |
| NOTE | All parameters NOT specia Ripple & noise are measure electric capacitor between a 3. Tolerance:includes set up to 4. The ambient temperature descriptions. | remeters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. e & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 104PF/50V ceramic capacitor and 47μf/50V ic capacitor between output terminals. ance:includes set up tolerance,line regulation and load regulation with minimum load 1% to maximum load 100% at 230VAC input condition. Imbient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft) uct Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx | | | | | | | |

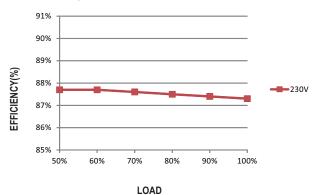




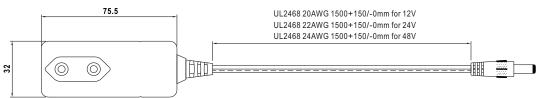
■ TOTAL HARMONIC DISTORTION (THD) 35% 30% 25% **-**230V 20% 15% 10% 5% 50% 60% 70% 80% 90% 100% LOAD ■ Mechanical Specification

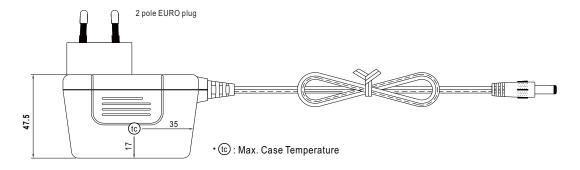
■ EFFICIENCY vs LOAD

GSV60 series possess superior working efficiency that up to 90% can be reached in field applications.

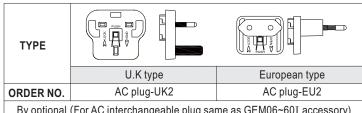


Unit:mm **%** Standard

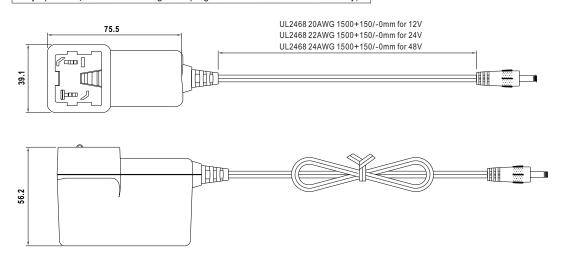




***Interchangeable AC plug Specifically for GSV30I/60I (order separately)**



By optional (For AC interchangeable plug same as GEM06~60I accessory)

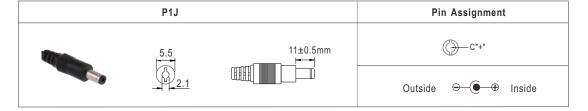




■ DC output plug

O Standard plug: P1J

Unit:mm



O 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)

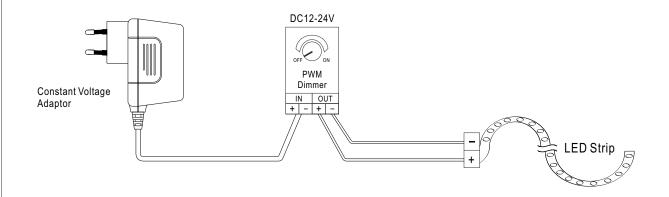
| Tuning Fork Style | | Type No. | А | В | С | Quick Adapter | |
|--|-----|------------------------------------|------------|------|------|---------------|--|
| | | | OD | ID | L | Accessory | |
| | | (Straight) | P1I | 5.5 | 2.1 | 9.5 | Available (Current rating: 7.5A max.) |
| | A B | | P1L | 5.5 | 2.5 | 9.5 | |
| W. | | | P1M | 5.5 | 2.5 | 11.0 | |
| | | (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. | Α | В | С | | |
| | | | OD | ID | L | | |
| | | (Right-angled) | P2I | 5.5 | 2.1 | 9.5 | None |
| | | | P2J | 5.5 | 2.1 | 11.0 | |
| - | B B | | 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. | А | В | С | - | |
| Lock Style | | | OD | ID | L | | |
| - | A | Floating Locking C | P2S(S761K) | 5.53 | 2.03 | 12.06 | None |
| | | | P2K(761K) | 5.53 | 2.54 | 12.06 | |
| The same of the sa | | | P2C(S760K) | 5.53 | 2.03 | 9.52 | |
| | | SWITCHCRAFT original or equivalent | P2D(760K) | 5.53 | 2.54 | 9.52 | |



| | | | | | | 0:141.6 | |
|---|---|----------------|------|--------|-----------------|--|--|
| Center Pin Style | Type No. | A | В | С | D Conton Bin | Quick Adapter Accessory | |
| | DAA | OD | ID O | L | Octilion 1 III | 7.000000. | |
| | P4A | 5.5 | 3.4 | 11.0 | 1.0 | Available | |
| | P4B | 6.5 | 4.4 | 11.0 | 1.4 | (Current rating: 7.5A max.) | |
| EIAJ equivalent | P4C | 7.4 | 5.1 | 11.0 | 0.6 | | |
| Min. DIN 3 Pin with Lock (male) | Type No. | Pin Assignment | | | , | | |
| (| .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | PIN No |). | Output | | | |
| | R6B | 1 | | +Vo | | Available | |
| | | 2 | | -Vo | | (Current rating: 7.5A max.) | |
| KYCON KPPX-3P equivalent | | 3 | | +Vo | | | |
| M. BIMAB. W. L. (. 1) | Type No. | Pin Assignment | | | | | |
| Min. DIN 4 Pin with Lock (male) | | PIN No | | Output | | | |
| | R7B | 1 | | +Vo | | Available (Current rating: 7.5A max.) | |
| 2 3 🖫 🗗 🗬 | | 2 | | -Vo | | | |
| KYCON KPPX-4P equivalent | | 3 | | -Vo | | | |
| KTCON KFFX-4F equivalent | | 4 | | +Vo | | | |
| Min. DIN 4 Pin with Lock (female) | Type No. | Pin Assignment | | | | | |
| Willi. Dilv 41 ill with Lock (icinale) | турстчо. | PIN No |). | Outpu | | None | |
| | R7BF | 1 | | +Vo | | | |
| 2 3 TUUUUU 1 14 TAAAAAA | | 2 | | -Vo | | | |
| | | 3 | | -Vo | | | |
| KYCON KPJX-CM-4S equivalent | | 4 | | +Vo | | | |
| Stripped and tinned leads | Type No. | Pin Assignment | | | | | |
| | | PIN No |). | Outpu | It | | |
| 1 2 2 | by customer | 1 (Ribbed | 1) | +Vo | | None | |
| L1 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

\bigcirc Connection



○Cautions

- Before commencing any installation or maintenance work, please disconnect the power supply from the utility. Ensure that it cannot be re-connected inadvertently!
- Mounting orientations other than standard orientation or operate under high ambient temperature may increase the internal component temperature and will require a de-rating in output current.
- Current rating of an approved primary /secondary cable should be greater than or equal to that of the unit. Please refer to its specification.
- For dimmable LED power supplies, make sure that your dimming controller is capable of driving these units.
- Tc max. is identified on the product label. Please make sure that temperature of Tc point will not exceed limit.
- The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
- For more information about installation, please refer to https://www.meanwell.com/Upload/PDF/LED_EN.pdf for details.
- Please refer to : http://www.meanwell.com/manual.html