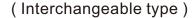




(Wall-Mounted EU type)





- · AC 180~264V input
- Class II/2 power unit, no FG
- Built-in active PFC function with EN61347-1 regulation

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- · 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

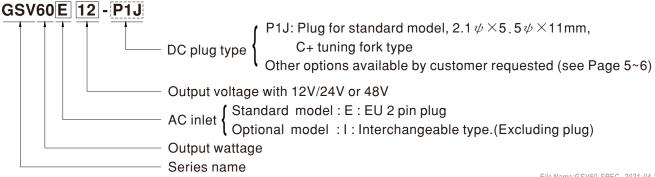
Applications

- · 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 II , no FG) standard plug, and the output side is equipped with the highly accepted DC connector ($2.1 \times 5.5 \times 11 \text{mm}$) in the market. This product accepts $180 \sim 264 \text{VAC}$ input and offers constant voltage output with 12 V/24 V or 48 V. The design complies with the lighting requirements of EMI EN55015 and the harmonic current demand according to 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.

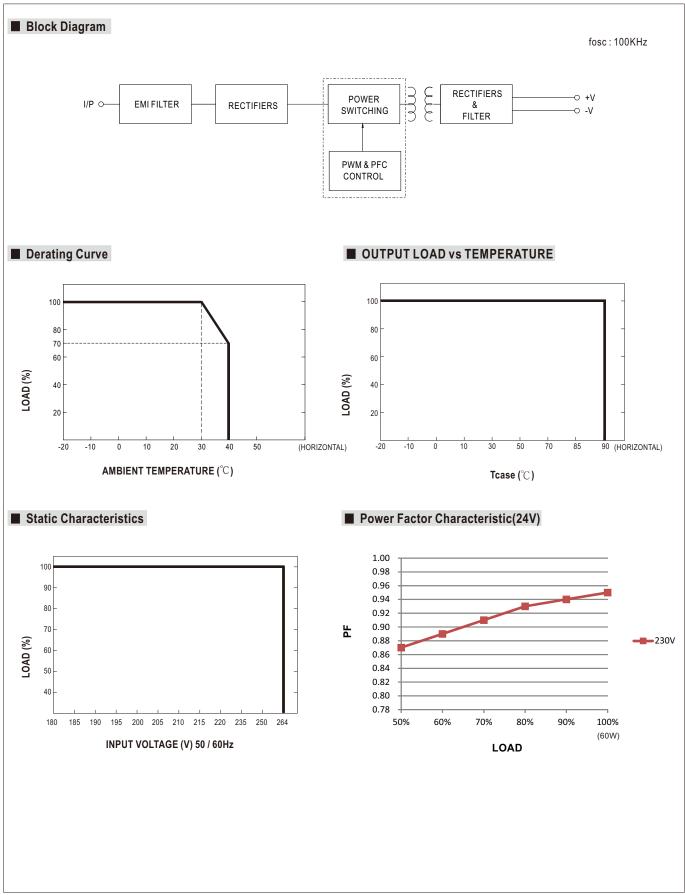
■ Model Encoding



SPECIFICATION

MODEL		GSV60E 12-P1J	GSV60E 24-P1J	GSV60E 48-P1J					
	DC VOLTAGE	12V	24V	48V					
OUTPUT	OPEN CIRCUIT VOLTAGE	<15V	<26V	<55V					
	RATED CURRENT	4.16A	2.5A	1.25A					
	RATED POWER	50W	60W	60W					
	RIPPLE & NOISE (max.) Note.2	2.5Vp-p max.	4Vp-p max.	5.5Vp-p max.					
	VOLTAGE TOLERANCE Note.3	±1.5V	±2.25V	±4.5V					
	LINE REGULATION	±2.0%	±2.0V	±2.0V					
	NO LOAD CONSUMPTION	0.5W max.							
	SETUP UP TIME	500ms/230VAC at full load							
INPUT	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	<20%/230VAC @ full load							
	EFFICIENCY (Typ.)	85% min. @ 230VAC	87% min. @ 230VAC	90% min. @ 230VAC					
	AC CURRENT (Typ.)	0.5A/230VAC		0.5A/230VAC					
	INRUSH CURRENT(max.)	COLD START 20A(twidth=200µs measured at 50% Ipeak) 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	OVER VOLTAGE	13.8V ~ 16.2V	27.6V ~ 32.4V	27.6V ~ 32.4V					
		Protection type : Clamp by zener diode, output short							
	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 & EMC	SAFETY STANDARDS	LVD BS EN/EN61347-1, BS EN/EN61347-2-13, EAC TP TC 004 approved							
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
	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); I: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 5~6; Other type available by customer requested							
NOTE	Ripple & noise are measure electric capacitor between 0 Tolerance : includes set up The ambient temperature d	DT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. e measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 104PF/50V ceramic capacitor and 47µf/50V							





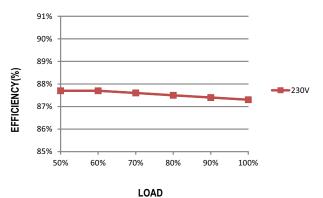


■ TOTAL HARMONIC DISTORTION (THD) 40% 35% 30% THD(%) 25% 20% 15% 10% 50% 60% 70% 80% 90% 100%

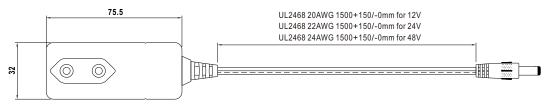
LOAD

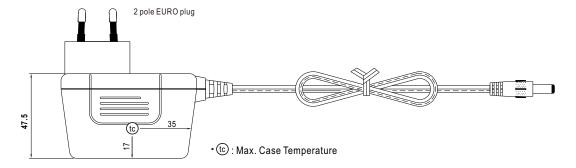
■ EFFICIENCY vs LOAD

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

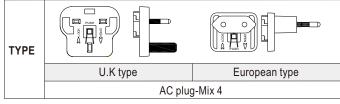


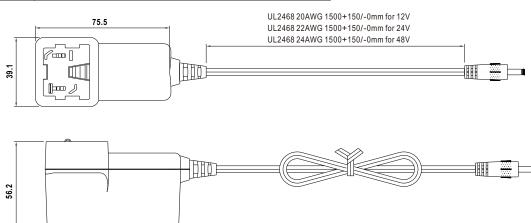
■ Mechanical Specification





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



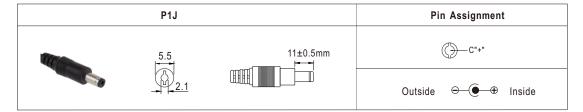




■ DC output plug

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)

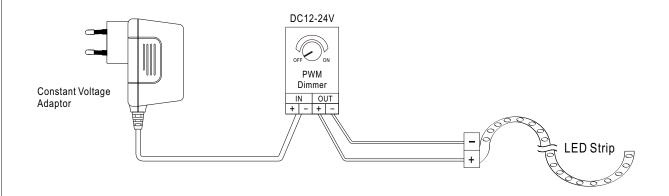
Tuning Fork Style			Type No.	А	В	С	Quick Adapter
running Fork Style		OD		ID	L	Accessory	
		(Straight)	P1I	5.5	2.1	9.5	Available (Current rating: 7.5A max.)
	LA B		P1L	5.5	2.5	9.5	
Tree -			P1M	5.5	2.5	11.0	
		(Right-angled)	P1IR	5.5	2.1	9.5	
			P1JR	5.5	2.1	11.0	
			P1LR	5.5	2.5	9.5	
			P1MR	5.5	2.5	11.0	
Barrel Style			Type No.	Α	В	С	
			турстчо.	OD	ID	L	
		(Straight) (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.	Α	В	С	
				OD	ID	L	
	A	Floating Locking B	P2S(S761K)	5.53	2.03	12.06	None
			P2K(761K)	5.53	2.54	12.06	
			P2C(S760K)	5.53	2.03	9.52	
_		SWITCHCRAFT original or equivalent	P2D(760K)	5.53	2.54	9.52	



		A	В	С	D	Quick Adapter	
Center Pin Style	Type No.	OD	ID	L	Center Pin	Accessory	
<u>.A.</u>	P4A	5.5	3.4	11.0	1.0		
	P4B	6.5	4.4	11.0	1.4	Available (Current rating: 7.5A max.)	
	P4C	7.4	5.1	11.0	0.6		
EIAJ equivalent			Pin Assignment				
Min. DIN 3 Pin with Lock (male)	Type No.		PIN No. Output				
Annn He	R6B	1		+Vo		Available	
		2		-Vo		(Current rating: 7.5A max.)	
KYCON KPPX-3P equivalent		3		+Vo			
	Type No.	Pin Assignment					
Min. DIN 4 Pin with Lock (male)		PIN No		Output			
	R7B	1		+Vo		Available	
2 3		2		-Vo		(Current rating: 7.5A max.)	
KYCON KPPX-4P equivalent		3		-Vo			
TOOM II A SQUITAIONE		4		+Vo			
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment					
()	R7BF	PIN No).	Outpu		None	
		1		+Vo			
2 3 [UUUUU] 1 4 [aanann]		3		-Vo			
KYCON KPJX-CM-4S equivalent		4		+Vo			
	Type No.	Pin Assignment					
Stripped and tinned leads		PIN No			ıt		
1	by customer	1 (Ribbed	1)	+Vo		None	
L I Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)	-, 3333	2 (Letter	.)	-Vo			

■ Installation Manual

○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