



(Wall-Mounted EU type)

























Features

- · AC 180~264V input
- 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

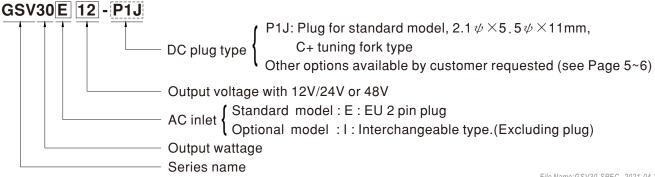
Applications

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

Description

GSV30 series is a 30W 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 (2.1x5.5x11mm) 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 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 GSV30 conform to the ErP regulation required by European Union for lighting systems as well.

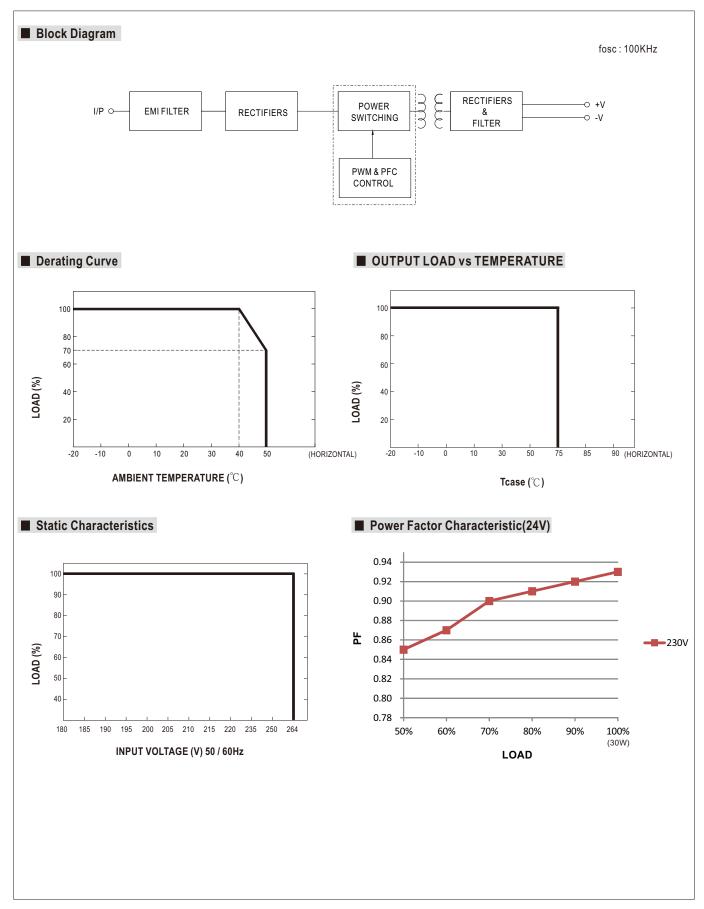
Model Encoding



SPECIFICATION

MODEL		GSV30E 12-P1J	GSV30E 24-P1J	GSV30E 48-P1J					
	DC VOLTAGE	12V	24V	48V					
OUTPUT	OPEN CIRCUIT VOLTAGE	<15V	<26V	<55V					
	RATED CURRENT	2.5A	1.25A	0.6A					
	RATED POWER	30W	30W	30W					
	RIPPLE & NOISE (max.) Note.2	2.5Vp-p max.	3.5Vp-p max.	4.5Vp-p max.					
	VOLTAGE TOLERANCE Note.3	±1.5V	±2V	±4V					
	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)							
NDUT	TOTAL HARMONIC DISTORTION	<20%/230VAC @ full load							
NPUT	EFFICIENCY (Typ.)	83% min. @ 230VAC	86% min. @ 230VAC	89% min. @ 230VAC					
	AC CURRENT (Typ.)	0.3A/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 ~ 200% rated output power							
	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed							
PROTECTION		15.6V ~ 18V	27.6V ~ 32.4V	57.6V ~ 72V					
	OVER VOLTAGE	Protection type : Clamp by zener diode, output short							
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed							
	WORKING TEMP.	-20 ~ +50°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
NVIRONMENT	STORAGE TEMP., HUMIDITY	-30 ~ +80°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (-20 ~ 50°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							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC							
EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
EIVIC	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							
	MTBF	450K hrs min. MIL-HDBK-217F (25°C)							
THERS	DIMENSION	E:75.5*32*47.5 mm(L*W*H); I:75.5*39.1*56.2 mm(L*W*H)							
	PACKING	E: 200g; 60pcs / 13kg / CARTON; I: 166g; 60pcs / 11kg / CARTON							
CONNECTOR	PLUG	See page 5~6; Other type available by customer requested							
	CABLE	See page 5~6; Other type available by customer requested							
NOTE	Ripple & noise are measure electric capacitor between of 3. 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 between output terminals. les set up tolerance, line regulation and load regulation. perature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft) Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx							





100%

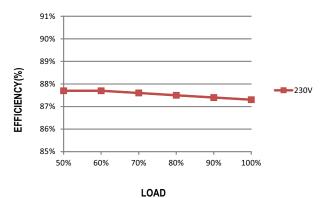




** 24V Model, Tcase at 75°C 40% 35% 30% 25% 20% 15% 10%

■ EFFICIENCY vs LOAD

GSV30 series possess superior working efficiency that up to 89% can be reached in field applications.



■ Mechanical Specification

60%

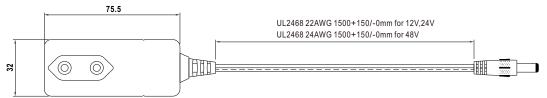
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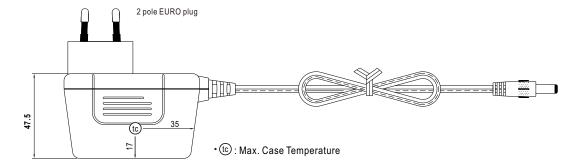
LOAD

※ Standard

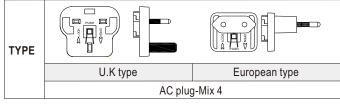
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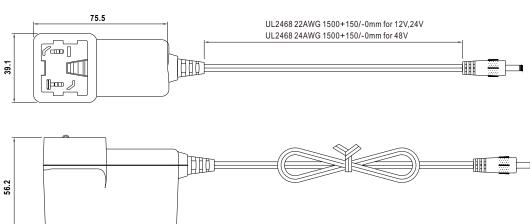






***Interchangeable AC plug Specifically for GSV30I/60I (order separately)**







■ DC output plug

O Standard plug: P1J

Unit:mm

P1J		Pin Assignment
5.5	11±0.5mm	(→ C"+"
2.1		Outside ⊖—⊕ Inside

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	
	A B	(Straight)	P1I	5.5	2.1	9.5		
			P1L	5.5	2.5	9.5	Available (Current rating: 7.5A max.)	
THE WAR			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		
	A 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		
			Type No.	OD	ID	L		
	A	Floating Locking C	P2S(S761K)	5.53	2.03	12.06	None	
			P2K(76	P2K(761K)	5.53	2.54	12.06	NOTIC
			P2C(S760K)	5.53	2.03	9.52		
		SWITCHCRAFT original or equivalent	P2D(760K)	5.53	2.54	9.52		

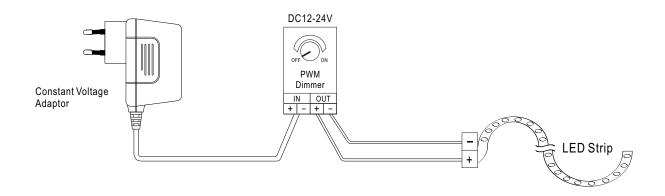


Center Pin Style	Type No.	A	В	С	D Center Pin	Quick Adapter Accessory	
	D44	OD	ID	L			
A A A A A A A A A A	P4A	5.5	3.4	11.0	1.0	Available	
	P4B	6.5	4.4	11.0	1.4	(Current rating: 7.5A max.)	
EIAJ equivalent	P4C	7.4	5.1	11.0	0.6		
Min. DIN 3 Pin with Lock (male)	Type No.		Pin Assignment				
Will. Bitt of in with 200K (malo)	турстко.	PIN No).	Output			
	R6B	1		+Vo		Available	
		2		-Vo		(Current rating: 7.5A max.)	
KYCON KPPX-3P equivalent		3		+Vo			
	Type No.	P	Pin Assignment				
Min. DIN 4 Pin with Lock (male)		PIN No		Output			
	R7B	1		+Vo		- Available	
2 3 EULI P 3 G		2		-Vo		(Current rating: 7.5A max.)	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		3		-Vo			
KYCON KPPX-4P equivalent		4		+Vo			
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment					
Will. DIN 4 Pill Will Lock (lelliale)	Type No.	PIN No).	Outpu	t		
	R7BF	1		+Vo		None	
		2		-Vo			
		3		-Vo			
KYCON KPJX-CM-4S equivalent		4		+Vo	1		
Stripped and tinned leads	Type No.	Pin Assignment					
от грром ана интом гом но		PIN No).	Outpu	ıt		
1	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

○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