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(Wall-Mounted EU type)





- · 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</li>
- 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

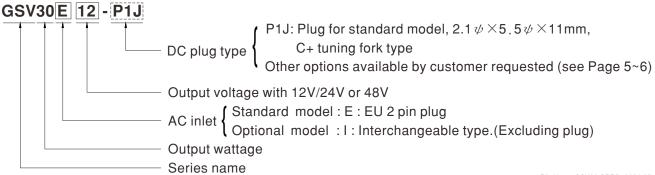
# Indoor

- ApplicationsLED 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  $180\sim264$ VAC 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 GSV30 conform to the ErP regulation required by European Union for lighting systems as well.

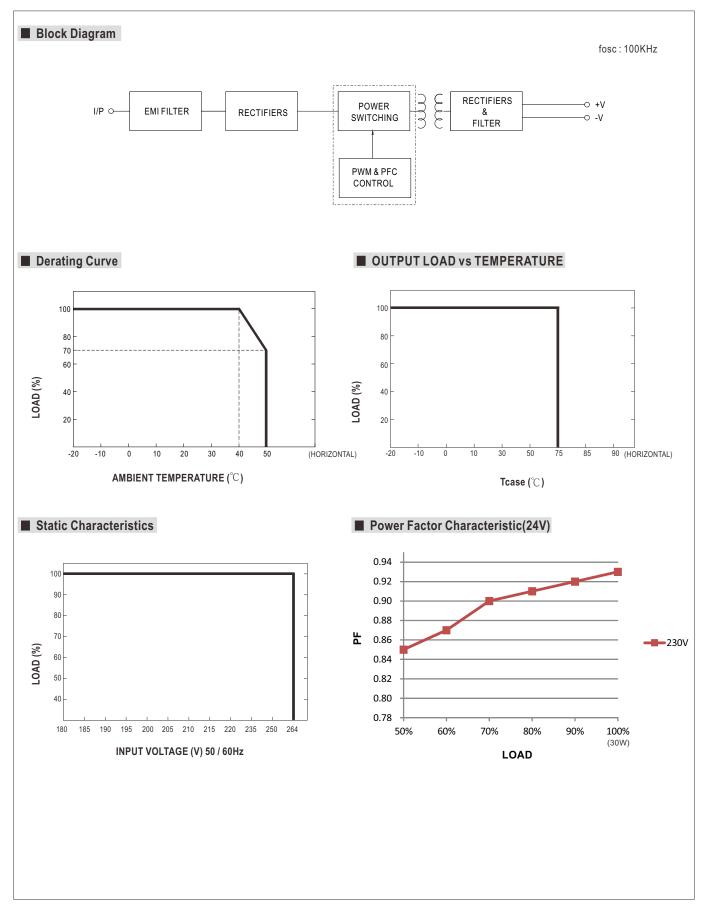
# ■ Model Encoding



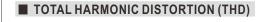
# **SPECIFICATION**

MODEL		GSV30E 12-P1J	GSV30E 24-P1J	GSV30E 48-P1J					
OUTPUT	DC VOLTAGE	12V	24V	48V					
	OPEN CIRCUIT VOLTAGE	<15V	<28V	<57V					
	RATED CURRENT	2.5A	1.25A	0.625A					
	RATED POWER	30W	30W	30W					
	RIPPLE & NOISE (max.) Note.2	2.5Vp-p max.	3.5Vp-p max.	5.5Vp-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							
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.)	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% Ipeak) 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	OVER VOLTAGE	15.6V ~ 18V	28V ~ 32.4V	57.6V ~ 72V					
		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							
ENVIRONMENT	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 &	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	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)							
OTHERS	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							
201115	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 of 3. Tolerance:includes set up to 4. The ambient temperature d	All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 104PF/50V ceramic capacitor and 47µf/50V electric capacitor between output terminals.  Tolerance:includes set up tolerance,line regulation and load regulation with minimum load 1% to maximum load 100% at 230VAC input condition.  The ambient 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).  Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx							

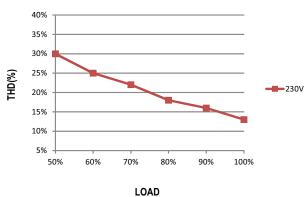






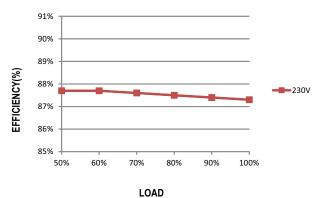


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### **■** EFFICIENCY vs LOAD

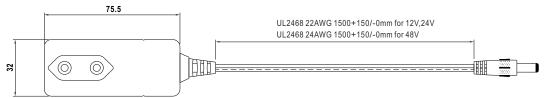
GSV30 series possess superior working efficiency that up to 89% can be reached in field applications.

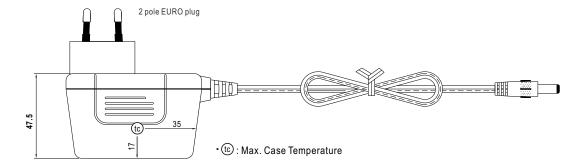


### ■ Mechanical Specification

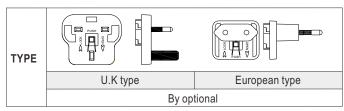
% Standard

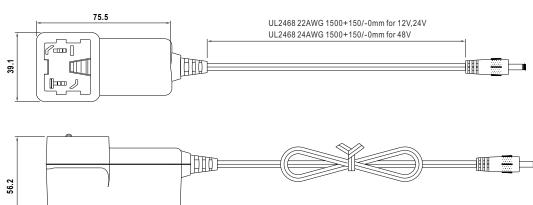






# **\*Interchangeable AC plug Specifically for GSV30I/60I (order separately)**



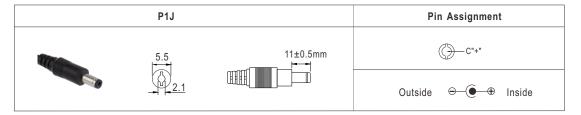




# ■ DC output plug

# 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: <a href="https://www.meanwell.com/upload/pdf/DC\_plug.pdf">https://www.meanwell.com/upload/pdf/DC\_plug.pdf</a>

# Example quick adapter accessory:







# Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork Style		Type No.	Α	В	С	Quick Adapter	
Tulling Fork Style			OD	ID	L	Accessory	
· ·	A B	(Straight)	P1I	5.5	2.1	9.5	Available (Current rating: 7.5A max.)
			P1L	5.5	2.5	9.5	
			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		
Barrer Style			турстчо.	OD	ID	L	
	A B	(Straight)  (Right-angled)	P2I	5.5	2.1	9.5	None
			P2J	5.5	2.1	11.0	
-			P2L	5.5	2.5	9.5	
The second second			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	
			турстчо.	OD	ID	L	
<b>b</b>	A	A Floating Locking C	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	

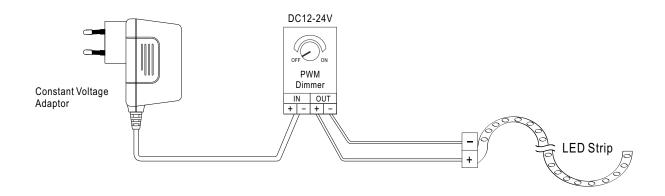


Center Pin Style	Type No.	А	В	С	D	Quick Adapter	
ochter i ili otyle	турстто.	OD	ID	L	Center Pin	Accessory	
+A-1 +-C-1	P4A	5.5	3.4	11.0	1.0	Available (Current rating: 7.5A max.)	
	P4B	6.5	4.4	11.0	1.4		
EIAJ equivalent	P4C	7.4	5.1	11.0	0.6		
,	Type No.	Pin Assignment					
Min. DIN 3 Pin with Lock (male)		PIN No	).	Output			
	R6B	1		+Vo		Available (Current rating: 7.5A max.)	
		2		-Vo			
KYCON KPPX-3P equivalent		3		+Vo			
	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 IIIII   G   a		2		-Vo			
1 4 KYCON KPPX-4P equivalent		3		-Vo			
K TOON KFFX-4F equivalent		4		+Vo			
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment					
Will. Dill 41 ill with Lock (lendle)	1900110.	PIN No	).	Outpu			
	R7BF	1		+Vo		None	
		2		-Vo		-	
		3		-Vo			
KYCON KPJX-CM-4S equivalent		4		+Vo			
Stripped and tinned leads	Type No.	Pin Assignment					
P. P. P. S.	71	PIN No	).	Outpu	I		
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