







(Cable connection)



(USB connection)













Applications









#### Features

- · Ultra slim
- · Universal AC input / Full range
- · 2 pole EURO plug, Class II power unit
- No load power consumption<0.075W</li>
- $^{ullet}$  Energy efficiency Level  ${
  m VI}$
- Comply with EU ErP and meet CoC version 5
- · Protections: Short circuit / Overload / Over voltage
- · Fully enclosed plastic case
- · Pass LPS
- 54V model available for PoE(optional)
- Various DC plug quick adapter accessory available (Plug kit sold sperately, please refer to : <a href="https://www.meanwell.com/upload/pdf/DC\_plug.pdf">https://www.meanwell.com/upload/pdf/DC\_plug.pdf</a>)
- 3 years warranty

- · Consumer electronic devices
- Telecommunication devices
- · Office facilities
- Industrial equipments
- Power sourcing equipment of PoE

#### GTIN CODE

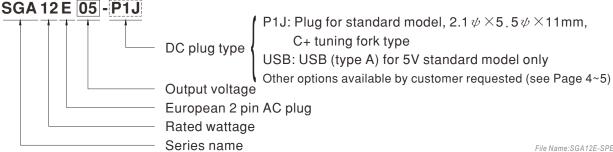
MW Search: https://www.meanwell.com/serviceGTIN.aspx

# 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  $\Pi$  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

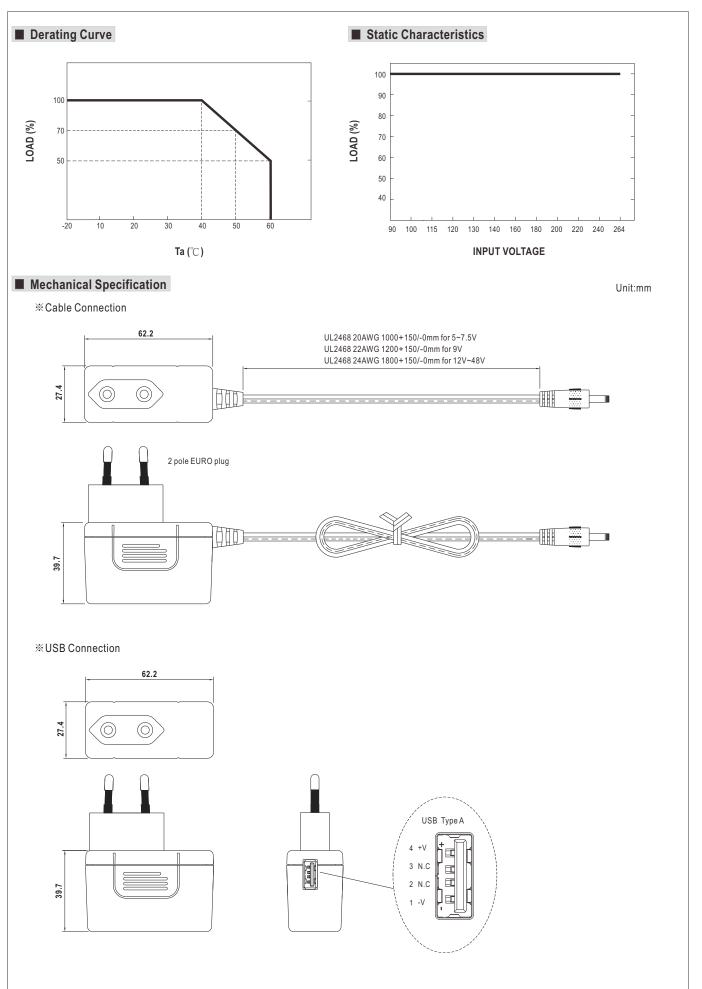




### **SPECIFICATION**

ORDER NO.		SGA12E05-□ □=P1J, USB	SGA12E07-P1J	SGA12E09-P1J	SGA12E12-P1J	SGA12E15-P1J	SGA12E18-P1J	SGA12E24-P1J	SGA12E48-P1J		
	SAFETY MODEL NO.	SGA12E05	SGA12E07	SGA12E09	SGA12E12	SGA12E15	SGA12E18	SGA12E24	SGA12E48		
	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V		
			1.6A	1.33A	1A	0.8A	0.66A	0.5A	0.25A		
								0 ~ 0.5A	0 ~ 0.25A		
								12W	12W		
OUTDUT	, ,							100mVp-p	100mVp-p		
001101	DC VOLTAGE   Note.2   SV   7.5V   9V   12V   15V   18V   18V   RATED CURRENT   2.4A   1.6A   1.33A   1.A   0.8A   0.8A   0.66A   0.6A   0.7   0.		±2.0%	±2.0%							
								±1.0%	±1.0%		
							±3.0%	±2.0%	±2.0%		
								I			
INPUT	EFFICIENCY (Typ.)	1000			83%	83.5%	84%	86%			
		0.4A / 115VAC 0.2A / 230VAC									
	INRUSH CURRENT (max.)	Cold start 30A / 115VAC 60A / 230VAC									
	LEAKAGE CURRENT(max.)	0.25mA / 240VAC									
	OVERLOAR	110 ~ 200% rat	ed output power					120 ~ 250% ra	ed output power		
DDOTECTION	OVERLUAD	Protection type	: Hiccup mode,	recovers autom	atically after fau	ılt condition is re	emoved				
PROTECTION		110 ~ 140% rate	ed output voltage	)							
	OVER VOLTAGE	Protection type	: Clamp by zen	er diode, output	short						
	WORKING TEMP.										
OUTPUT  INPUT  PROTECTION -  ENVIRONMENT  SAFETY &  EMC (Note. 7)  OTHERS	WORKING HUMIDITY	,									
ENVIRONMENT	STORAGE TEMP., HUMIDITY										
PROTECTION  ENVIRONMENT  SAFETY & EMC	TEMP. COEFFICIENT										
	VIBRATION	10 ~ 500Hz, 2G	10min./1cycle,	period for 60min.	each along X, Y,	Zaxes					
	SAFETY STANDARDS										
	WITHSTAND VOLTAGE										
	ISOLATION RESISTANCE	I/P-O/P:100M C	hms / 500VDC /	25°C/70% RH							
	EMC EMISSION	Conducted emission BS EN/EN55032(CISPR32)				Class B					
		Radiated emission BS EN/EN55032(CISPR32)				Class B					
SAFETY &											
								Toot I eval /Note			
(Note. 1)											
		ESD					Level 3, 8KV air; Level 2, 4KV contact				
		RF field suscep	tibility	y BS EN/EN61000-4-3			Level 2, 3V/m				
		EFT bursts		BS EN/EN6	BS EN/EN61000-4-4		Level 2, 1KV				
INPUT  PROTECTION :  ENVIRONMENT  SAFETY & EMC (Note. 7)  OTHERS  CONNECTOR :	EMC IMMUNITY	Surge susceptib	oility	BS EN/EN6	BS EN/EN61000-4-5		Level 3, 1KV/L-N				
			. ,								
		Magnetic neiu ii	illiuliity								
		Voltage dips , in	terruption	BS EN/EN6	1000-4-11		>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods				
	LIFE	3 years : 100%	load 40°C, 8hou	rs / day							
0711500	MTBF	265Khrs min. MIL-HDBK-217F(25°C)									
OTHERS	DIMENSION										
	PACKING	100g; 90pcs / 10kg / CARTON for cable connection; 59.5g; 90pcs / 8kg / CARTON for USB connection									
	PLUG	See page 4~5; Other type available by customer requested									
CONNECTOR	CABLE										
NOTE	2.DC voltage: The output voltage set at point measure by plug terminal & 50% load. 3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor. 4.Tolerance: includes set up tolerance, line regulation, load regulation. 5.Line regulation is measured from low line to high line at rated load. 6.Load regulation is measured from 10% to 100% rated load 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." (as available on http://www.meanwell.com)						the				





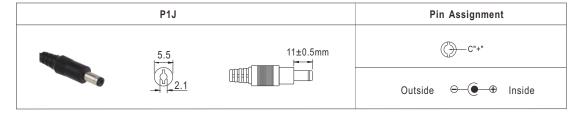


# 12W AC-DC High Reliability Slim Wall-mounted Adaptor

## ■ 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 F	Type No.	А	В	С	Quick Adapter	
Tuning Fo	Type No.	OD	ID	L	Accessory	
	C	P1I	5.5	2.1	9.5	
	(Straight)	P1L	5.5	2.5	9.5	
I A		P1M	5.5	2.5	11.0	A ! -  -  -
A B	(Right-angled)	P1IR	5.5	2.1	9.5	Available
→ 1 1 B		P1JR	5.5	2.1	11.0	(Current rating: 7.5A max.)
		P1LR	5.5	2.5	9.5	
		P1MR	5.5	2.5	11.0	
Barre	Type No.	Α	В	С		
Daile	Type No.	OD	ID	L		
	, C	P2I	5.5	2.1	9.5	
		P2J	5.5	2.1	11.0	
Δ.	(Straight)	P2L	5.5	2.5	9.5	None
A D B		P2M	5.5	2.5	11.0	110110
L B		P2IR	5.5	2.1	9.5	
		P2JR	5.5	2.1	11.0	
		P2LR	5.5	2.5	9.5	
	(Right-angled)	P2MR	5.5	2.5	11.0	
Lock	Type No.	Α	В	С		
LOCK		OD	ID	L		
. A .	Floating Locking -C-	P2S(S761K)	5.53	2.03	12.06	None
		P2K(761K)	5.53	2.54	12.06	None
A B		P2C(S760K)	5.53	2.03	9.52	
	SWITCHCRAFT original or equivalent	P2D(760K)	5.53	2.54	9.52	
Min. Pin	Type No.	Α	В	С		
IVIIII. I III	1,700.110.	OD	ID	L		
ı.A.	C	P3A	2.35	0.7	11.0	Available
A B		P3B	4.0	1.7	11.0	(Current rating: 5A max.)
——————————————————————————————————————	EIAJ equivalent	P3C	4.75	1.7	11.0	





		A	В	С	D	Quick Adapter	
Center Pin Style	Type No.	OD	ID	L	Center Pin	Accessory	
,,A,, C,	P4A	5.5	3.4	11.0	1.0		
	P4B	6.5	4.4	11.0	1.4	Available	
	P4C	7.4	5.1	11.0	0.6	(Current rating: 7.5A max.)	
EIAJ equivalent		Pin Assignment					
Min. DIN 3 Pin with Lock (male)	Type No.	PIN No. Output					
		1		+Vo		Available (Current rating: 7.5A max.)	
	R6B	2		-Vo +Vo			
KYCON KPPX-3P equivalent	INOD	3					
		Pin Assignment					
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No		Outpu	t		
	R7B	1		+Vo		Available (Current rating: 7.5A max.)	
2 3 WILLIA G		2		-Vo			
1 4 KYCON KPPX-4P equivalent		3		-Vo +Vo			
K TOON KFFX-4F Equivalent		4					
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment					
min 2 nv 11 m min 200k (10 maio)	71	PIN No	).	Output		None	
	R7BF	1		+Vo			
23 [14		3		-Vo -Vo			
KYCON KPJX-CM-4S equivalent		4		+Vo			
	Type No.	Pin Assignment					
Stripped and tinned leads		PIN No					
1	by customer	1 (Ribbed		+Vo		None	
L1  Length of Land L1 by request  (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)	by outstonier	2 ( Letter	)	-Vo			

### ■ Installation Manual

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