





(Cable connection)



(USB connection)

























Features

- · Ultra slim
- · Universal AC input / Full range
- · 2 pole EURO plug, Class II power unit
- No load power consumption<0.075W
- 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 : https://www.meanwell.com/upload/pdf/DC_plug.pdf)
- 3 years warranty

Applications

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

GTIN CODE

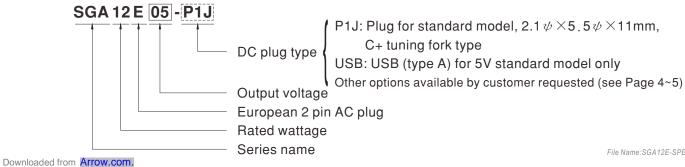
MW Search: https://www.meanwell.com/serviceGTIN.aspx

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 Π 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

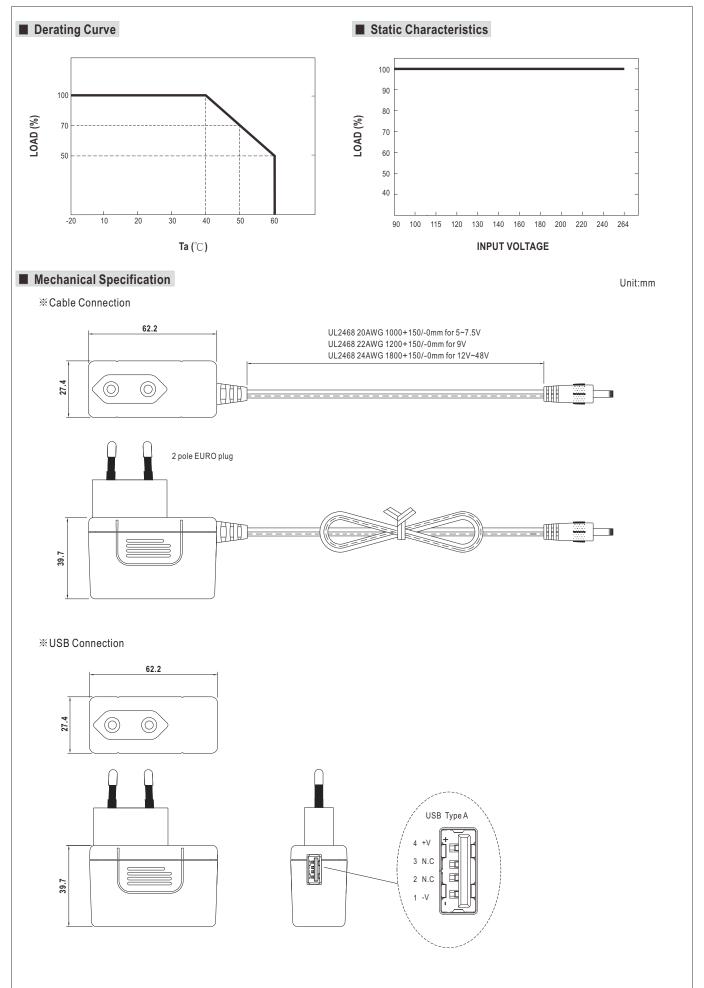




SPECIFICATION

ORDER NO.		SGA12E05-	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		
ОИТРИТ	DC VOLTAGE Note.2		7.5V	9V	12V	15V	18V	24V	48V		
	RATED CURRENT	2.4A	1.6A	1.33A	1A	0.8A	0.66A	0.5A	0.25A		
					0 ~ 1A			0.5A 0 ~ 0.5A	0.25A 0 ~ 0.25A		
	CURRENT RANGE	0 ~ 2.4A	0 ~ 1.6A	0 ~ 1.33A	-	0 ~ 0.8A	0 ~ 0.66A				
	RATED POWER (max.)	12W	12W	12W	12W	12W	12W	12W	12W		
	RIPPLE & NOISE (max.) Note.3		50mVp-p	80mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	100mVp-p		
	VOLTAGE TOLERANCE Note.4		±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%		
		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
		±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%		
	· · ·	1500ms, 50ms, 10ms/230VAC 1500ms, 50ms, 10ms/115VAC at full load									
	VOLTAGE RANGE	90 ~ 264VAC	47 ~ 63Hz								
	FREQUENCY RANGE	47 ~ 63F12 80% 83% 82.5% 83% 83% 83.5% 84% 86%									
INPUT	EFFICIENCY (Typ.)				83%	83%	83.5%	84%	86%		
	AC CURRENT	0.4A / 115VAC									
	INRUSH CURRENT (max.)	Cold start 30A / 115VAC 60A / 230VAC									
	LEAKAGE CURRENT(max.)	0.25mA / 240VA						100 0500/			
	OVERLOAD		ed output power		-4111 0 - 6	de a sa dire	d	120 ~ 250% ra	ted output power		
PROTECTION				recovers autom	natically after fac	alt condition is re	emoved				
	OVER VOLTAGE		ed output voltage								
	WODKING TEMP			er diode, output	snort						
	WORKING TEMP. WORKING HUMIDITY	-20 ~ +60°C (Refer to "Derating Curve") 20% ~ 90% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY										
LITTINONIILITI	TEMP. COEFFICIENT	-20 ~ +85°C, 10 ~ 95% RH non-condensing ±0.03% / °C (0 ~ 40°C)									
	VIBRATION	±0.03% / C (0 ~ 40 C) 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
	SAFETY STANDARDS		-			_ unoo					
	WITHSTAND VOLTAGE	TUV BS EN/EN62368-1, EAC TP TC 004 approved I/P-O/P:4242VDC									
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH									
		Parameter Standard Test Level / No						е			
	EMC EMISSION	Conducted emission BS EN/EN55032(CISPR32)					Class B				
		Radiated emission BS EN/EN55032(CISPR32)					Class B				
SAFETY &		Harmonic current BS EN/EN61000-3-2				Class A					
EMC		Voltage flicker		BS EN/EN61000-3-3							
(Note. 7)		Parameter Standard					Test Level /Note				
		ESD					Level 3, 8KV air; Level 2, 4KV contact				
		RF field suscep	tihility	BS EN/EN61000-4-3			Level 2, 3V/m				
		EFT bursts	tionity .		BS EN/EN61000-4-4		Level 2, 1KV				
	EMC IMMUNITY	Surge susceptib	sility.		BS EN/EN61000-4-5			Level 3, 1KV/L-N			
	LINO IMMONTO										
		Conducted susc	. ,		BS EN/EN61000-4-6			Level 2, 3V			
		Magnetic field in	field immunity BS EN/EN61000-4-8				Level 1, 1A/m				
		Voltage dips , interruption BS EN/EN61000-4-11 >95% dip 0. 5 periods, 30% dip 25 periods >95% interruptions 250 periods									
	LIFE	-	load 40°ℂ, 8hou				· ·				
OTHERS	MTBF	265Khrs min. MIL-HDBK-217F(25°C)									
OTTLENO	DIMENSION	62.2*27.4*39.7mm (L*W*H)									
CONNECTOR	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									
	CABLE See page 4~5; Other type available by customer requested										
NOTE	 1.All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient. 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				
Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						File Name:SGA12E-					







■ 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 F	Type No.	Α	В	С	Quick Adapter		
Tulling I	Type No.	OD	ID	L	Accessory		
	C	P1I	P1I 5.5 2.1		9.5		
	(Straight)	P1L	5.5	2.5	9.5		
A.		P1M	5.5	2.5	11.0	Aveilable	
A B	C C	P1IR	5.5	2.1	9.5	Available	
→ F-D		P1JR	5.5	2.1	11.0	(Current rating: 7.5A max.)	
		P1LR	5.5	2.5	9.5		
	(Right-angled)	P1MR	5.5	2.5	11.0		
Barre	Type No.	Α	В	С			
Darre	il Style	Type No.	OD	ID	L		
	. С .	P2I	5.5	2.1	9.5		
		P2J	5.5	2.1	11.0		
	(Straight)	P2L	5.5	2.5	9.5	None	
A A		P2M	5.5	2.5	11.0	110110	
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	3 2.54 1	12.06	None	
A D B		P2C(S760K)	5.53	2.03	9.52		
	SWITCHCRAFT original or equivalent	P2D(760K)	5.53	2.54	9.52		
Min. Pir	Type No.	А	В	С			
IVIIII. FII	туре но.	OD	ID	L			
,A,		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		



Center Pin Style	Type No.	A OD	B ID	C	D Center Pin	Quick Adapter Accessory	
<u>A</u> <u>C</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.)	
ElAJ equivalent	P4C	7.4	5.1	11.0	0.6	(Current rating. 7.5A max.)	
		Pin Assignment					
Min. DIN 3 Pin with Lock (male)	Type No.	PIN No	PIN No. Output				
	R6B	1		+Vo		Available (Current rating: 7.5A max.)	
(°°) ₁ 2		2		-Vo +Vo			
KYCON KPPX-3P equivalent		3					
	Tura Na	Pin Assignment					
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No).	Outpu	t		
	R7B	1		+Vo		Available	
23 [1] [3] 日		2		-Vo		(Current rating: 7.5A max.)	
KYCON KPPX-4P equivalent		3		-Vo			
TOOM AT A TO SQUITAGE		4		+Vo			
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment					
	R7BF	PIN No).	Output			
		1		+Vo		None	
23 [111]		3		-Vo			
KYCON KPJX-CM-4S equivalent		4		-vo +Vo			
		Pin Assignment					
Stripped and tinned leads	Type No.	PIN No. Output		ıt			
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)	of outside	2 (Letter	-)	-Vo			

■ Installation Manual

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