



(Cable connection)



(USB connection)













Features

- · Ultra slim
- · Universal AC input / Full range
- · 2 pole EURO plug, Class II power unit

CB FAI C E 🕅

- 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

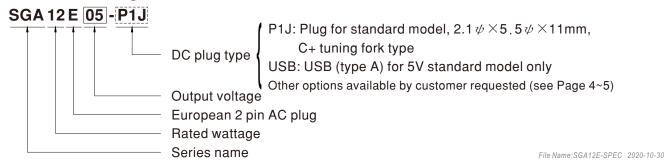
- · Consumer electronic devices
- Telecommunication devices
- · Office facilities
- Industrial equipments
- Power sourcing equipment of PoE

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 $\rm II$ 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

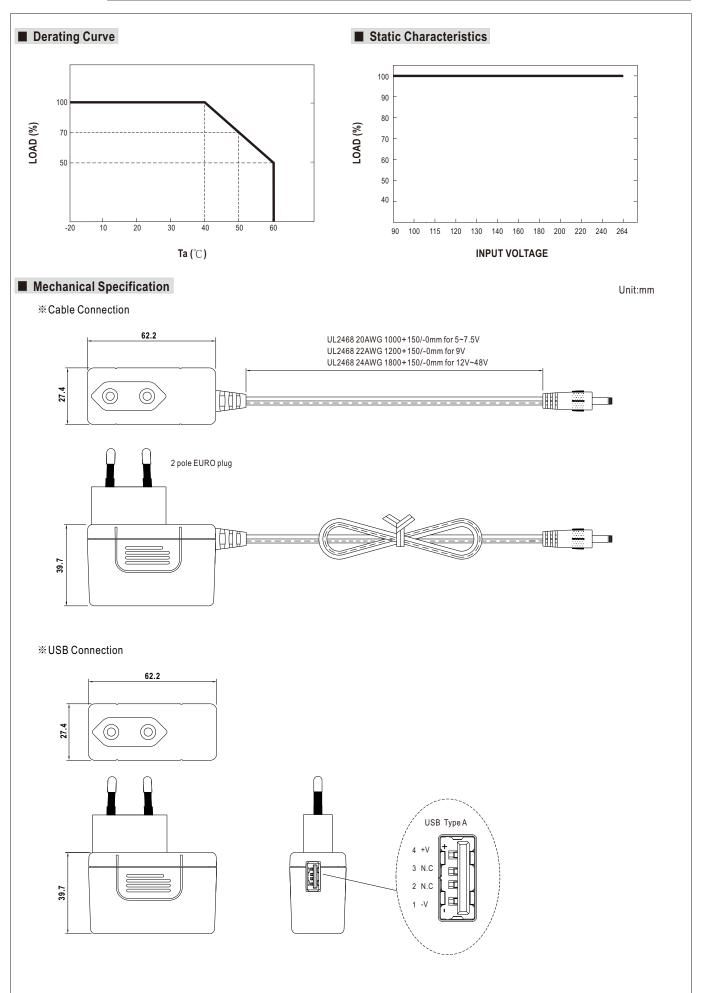




SPECIFICATION

		SGA12E05-□ S □=P1J, USB	GA12E07-P1J	SGA12E09-P1J	SGA12E12-P1J	SGA12E15-P1J	SGA12E18-P1J	SGA12E24-P1J	SGA12E48-P1J		
	SAFETY MODEL NO.	SGA12E05 S	SGA12E07	SGA12E09	SGA12E12	SGA12E15	SGA12E18	SGA12E24	SGA12E48		
ОИТРИТ	DC VOLTAGE Note.2	5V 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		
	CURRENT RANGE	0 ~ 2.4A 0	~ 1.6A	0 ~ 1.33A	0 ~ 1A	0 ~ 0.8A	0 ~ 0.66A	0 ~ 0.5A	0 ~ 0.25A		
	RATED POWER (max.)		2W	12W	12W	12W	12W	12W	12W		
	RIPPLE & NOISE (max.) Note.3	50mVp-p 5	0mVp-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%		
-			±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%		
	SETUP, RISE, HOLD UP TIME				ms, 10ms/115VA				1		
	VOLTAGE RANGE	90 ~ 264VAC									
	FREQUENCY RANGE	47 ~ 63Hz	47 ~ 63Hz								
	EFFICIENCY (Typ.)	80% 8	3%	82.5%	83%	83%	83.5%	84%	86%		
INPUT -	AC CURRENT	0.4A / 115VAC	0.2A / 230V/	AC							
	INRUSH CURRENT (max.)	Cold start 30A / 115VAC 60A / 230VAC									
	LEAKAGE CURRENT(max.)	0.25mA / 240VAC									
									ted output powe		
	OVERLOAD			recovers autom	atically after fau	ult condition is re	emoved				
PROTECTION			Protection type: Hiccup mode, recovers automatically after fault condition is removed 110 ~ 140% rated output voltage								
	OVER VOLTAGE	Protection type :			short						
	WORKING TEMP.	-20 ~ +60°C (Refe									
ENVIRONMENT	WORKING HUMIDITY	20% ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~	95% RH non-	condensing							
	TEMP. COEFFICIENT	±0.03% /°C (0 ⋅	~40°C)								
	VIBRATION	10 ~ 500Hz, 2G 1	0min./1cycle, p	period for 60min.	each along X, Y,	Zaxes					
	SAFETY STANDARDS	TUV EN62368-1, EAC TP TC 004 approved									
	WITHSTAND VOLTAGE	I/P-O/P:4242VDC)								
	ISOLATION RESISTANCE	I/P-O/P:100M Oh	ms / 500VDC /	25°C/70% RH							
	EMC EMISSION	Parameter Standard					Test Level / Note				
		Conducted emission EN55032(CISPR32)				Class B					
		Radiated emission EN55032(CISPR32)				Class B					
SAFETY &		Harmonic current	Harmonic current EN61000-3-2				Class A				
EMC		Voltage flicker		EN61000-3-	EN61000-3-3						
(Note. 7)		Parameter		Standard	Standard Te			e			
		ESD		EN61000-4-	EN61000-4-2		Level 3, 8KV air; Level 2, 4KV contact				
		RF field susceptib	bility		EN61000-4-3		Level 2, 3V/m				
		EFT bursts	· •	EN61000-4-4			Level 2, 1KV				
	EMC IMMUNITY		itv		E		1 000 2 11/1/1	N			
	EMC IMMUNITY	Surge susceptibili		EN61000-4-			Level 3, 1KV/I	N			
	EMC IMMUNITY	Conducted susce	ptibility	EN61000-4-	6		Level 2, 3V				
	EMC IMMUNITY		ptibility		6		Level 2, 3V Level 1, 1A/m				
	EMC IMMUNITY	Conducted susce	ptibility munity	EN61000-4-	8		Level 2, 3V Level 1, 1A/m >95% dip 0. 5				
	EMC IMMUNITY	Conducted susce Magnetic field imm	ptibility munity erruption	EN61000-4- EN61000-4-	8		Level 2, 3V Level 1, 1A/m >95% dip 0. 5	periods, 30% di			
		Conducted susce Magnetic field imr Voltage dips , inte	ptibility munity erruption ad 40°C, 8hour	EN61000-4- EN61000-4- EN61000-4-	8		Level 2, 3V Level 1, 1A/m >95% dip 0. 5	periods, 30% di			
OTHERS	LIFE	Conducted susce Magnetic field imr Voltage dips , inte 3 years : 100% lo	ptibility munity erruption ad 40°C, 8hour L-HDBK-217F(EN61000-4- EN61000-4- EN61000-4-	8		Level 2, 3V Level 1, 1A/m >95% dip 0. 5	periods, 30% di			
OTHERS	LIFE MTBF	Conducted susce Magnetic field imr Voltage dips , inte 3 years : 100% loc 265Khrs min. MII	ptibility munity erruption ad 40°C, 8hour L-HDBK-217F(m (L*W*H)	EN61000-4- EN61000-4- EN61000-4- rs / day 25°C)	6 8 .11	cs / 8kg / CARTC	Level 2, 3V Level 1, 1A/m >95% dip 0. 5 >95% interrup	periods, 30% di tions 250 period			
OTHERS	LIFE MTBF DIMENSION	Conducted susce Magnetic field imr Voltage dips , inte 3 years : 100% lo. 265Khrs min. MII 62.2*27.4*39.7mi	ptibility munity erruption ad 40°C, 8hour L-HDBK-217F(m (L*W*H) kg / CARTON f	EN61000-4- EN61000-4- EN61000-4- rs / day 25°C)	6 8 -11 ion ; 59.5g ; 90po	cs / 8kg / CARTC	Level 2, 3V Level 1, 1A/m >95% dip 0. 5 >95% interrup	periods, 30% di tions 250 period			
OTHERS	LIFE MTBF DIMENSION PACKING	Conducted susce Magnetic field imr Voltage dips , inte 3 years : 100% lo 265Khrs min. MII 62.2*27.4*39.7mi 100g ; 90pcs / 10l	ptibility munity erruption ad 40°C, 8hour L-HDBK-217F(m (L*W*H) kg / CARTON f	EN61000-4- EN61000-4- EN61000-4- EN61000-4- or cable connect able by customer	6 8 .11 .ion; 59.5g; 90por requested	cs / 8kg / CARTC	Level 2, 3V Level 1, 1A/m >95% dip 0. 5 >95% interrup	periods, 30% di tions 250 period			
OTHERS	LIFE MTBF DIMENSION PACKING PLUG	Conducted susce Magnetic field imr Voltage dips , inte 3 years : 100% lo. 265Khrs min. MII 62.2*27.4*39.7mi 100g ; 90pcs / 10I See page 4~5 ; O See page 4~5 ; O d at 230VAC input, age set at point med at 20MHz by us tolerance, line regulation from low line to hid from 10% lone to hid from 10% to 100 dered as an independent on how to performe on how to performe anwell.com)	ptibility munity erruption ad 40°C, 8hour L-HDBK-217F(m (L*W*H) kg / CARTON f ther type available ther type available r, rated load, 29 neasure by plusing a 12" twis ulation, load re nigh line at rate of rated load, but orm these EMe	EN61000-4- EN61000-4- EN61000-4- rs / day 25°C) or cable connect able by customer able by c	6 8 .11 .ion; 59.5g; 90pur requested requested requested reducted with a 0.1uf	& 47uf capacito ore-confirm that ting of compone	Level 2, 3V Level 1, 1A/m >95% dip 0. 5 >95% interrup N for USB connections The whole system to power supplies	periods, 30% di tions 250 period	S		







■ DC output plug

O Standard plug: P1J

Unit:mm

P1J		Pin Assignment
5.5	11±0.5mm	© C"+"
→ « ² · · ·		Outside ⊖

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.	Α	В	С	Quick Adapter
			Type No.	OD	ID	L	Accessory
		- C	P1I	5.5	2.1	9.5	
		(Straight)	P1L	5.5	2.5	9.5	
	A		P1M	5.5	2.5	11.0	A !
		C	P1IR	5.5	2.1	9.5	Available
-	1 <u>-B</u>		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	
	Barrol	Style	Type No.	Α	В	С	
Barrel Style			Type No.	OD	ID	L	
		. C .	P2I	5.5	2.1	9.5	
	٨	(Straight)	P2J	5.5	2.1	11.0	
Δ.			P2L	5.5	2.5	9.5	None
	<u>;</u>		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 Style			Α	В	С	
				OD	ID	L	
be.	A	Floating Locking C-	P2S(S761K)	5.53	2.03	12.06	None
			P2K(761K)	5.53	2.54	12.06	None
_		SWITCHCRAFT original or equivalent	P2C(S760K)	5.53	2.03	9.52	
			P2D(760K)	5.53	2.54	9.52	
Min. Pin Style			Type No.	Α	В	С	
			1 9 0 1 1 0 .	OD	ID	L	
	A	C.	P3A	2.35	0.7	11.0	Available
	(a)		P3B	4.0	1.7	11.0	(Current rating: 5A max.)
	<u>→</u> -	EIAJ equivalent	P3C	4.75	1.7	11.0	

SGA12E series

Center Pin Style	Type No.	A OD	B ID	C L	D Center Pin	Quick Adapter Accessory	
<u>.A.</u> . C .	P4A	5.5	3.4	11.0	1.0		
	P4B	6.5	4.4	11.0	1.4	Available	
EIAJ 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. Output				
	R6B	1		+Vo		Available (Current rating: 7.5A max.)	
		2		-Vo			
KYCON KPPX-3P equivalent		3		+Vo			
M: BIN (B: 111 1 (1)	Tuno No	Pin Assignment					
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No		Output			
	R7B	1		+Vo		Available	
23		2		-Vo		(Current rating: 7.5A max.)	
KYCON KPPX-4P equivalent		3		-Vo			
·		4	+V0				
Min. DIN 4 Pin with Lock (female)	Type No.		Pin Assignment PIN No. Output				
	R7BF	1 1 1	١.	+Vo			
23 ruuuuli		2		-Vo		None	
23		3		-Vo			
KYCON KPJX-CM-4S equivalent		4		+Vo			
Stripped and tinned leads	Type No.	Pin Assignment					
Stripped and tillled leads		PIN No		Outpu	t		
1	by customer	1 (Ribbed)	+Vo		None	
L I 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

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