



(Cable connection)



#### Features

- · Ultra slim
- · Universal AC input / Full range
- · 2 pole USA plug, Class II power unit
- No load power consumption<0.075W</li>
- Energy efficiency Level VI
- Comply with EISA 2007/DoE
- · 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

( USB connection )













## Applications

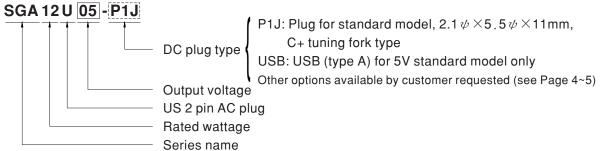
- · Consumer electronic devices
- · Telecommunication devices
- · Office facilities
- · Industrial equipm
- Power sourcing equipment of PoEents

#### Description

SGA12U is a 12W ultra slim wall-mounted style single-output green adaptor series, which is compact and convenient for carry. SGA12U is a class II power unit (no FG) equipped with the standard 2-Pin U.S. 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, SGA12U is compliant with the latest U.S. energy regulation EISA 2007/DoE(Level VI). 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**







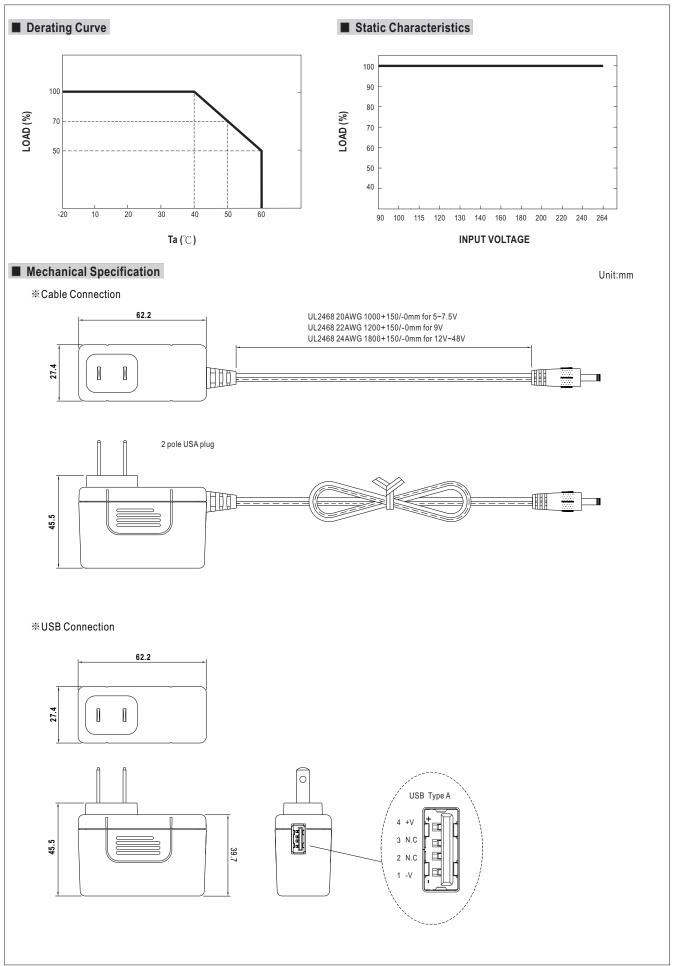
#### **SPECIFICATION**

ORDER NO.		SGA12U05-	SGA12U07-P1J	SGA12U09-P1J	SGA12U12-P1J	SGA12U15-P1J	SGA12U18-P1	SGA12U24-P1J	SGA12U48-P1			
	SAFETY MODEL NO.	SGA12U05	SGA12U07	SGA12U09	SGA12U12	SGA12U15	SGA12U18	SGA12U24	SGA12U48			
	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.)	12W	12W	12W	12W	12W	12W	12W	12W			
OUTPUT	RIPPLE & NOISE (max.) Note.3	50mVp-p	50mVp-p	80mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	100mVp-p			
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%			
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	LOAD REGULATION Note.6	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%			
	SETUP, RISE, HOLD UP TIME											
	VOLTAGE RANGE	1500ms, 50ms, 10ms/230VAC 1500ms, 50ms, 10ms/115VAC at full load 90 ~ 264VAC										
	FREQUENCY RANGE	47 ~ 63Hz										
	EFFICIENCY (Typ.)	80%	83%	82.5%	83%	83%	83.5%	84%	86%			
NPUT	AC CURRENT	0.4A / 115VAC	0.2A / 230V/									
	INRUSH CURRENT (max.)	Cold start 30A / 115VAC 60A / 230VAC										
	LEAKAGE CURRENT(max.)	0.25mA / 240VAC										
	OVERLOAD	110 ~ 200% rated output power 120 ~ 250% rated output pow										
PROTECTION	OVEREDAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed										
NOTES HON	OVER VOLTAGE	110 ~ 140% rated output voltage										
				er diode, output	short							
	WORKING TEMP. WORKING HUMIDITY	-20 ~ +60°C (Refer to "Derating Curve")										
ENVIRONMENT	STORAGE TEMP., HUMIDITY	20% ~ 90% RH non-condensing  -20 ~ +85°C, 10 ~ 95% RH non-condensing										
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 40°C)										
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes										
	SAFETY STANDARDS	UL62368-1, CSA C22.2 NO. 62368-1, EAC TP TC 004 approved										
	WITHSTAND VOLTAGE	I/P-O/P:4242VDC										
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:100M C	hms / 500VDC /	25°C/70% RH								
EMC		Parameter Standard						est Level / Note				
Note. 7)	EMC EMISSION	Conducted em			, ()				Class B			
		Radiated emission FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B) Class B										
	LIFE	3 years: 100% load 40°C, 8hours / day										
OTHERS	MTBF	265Khrs min. MIL-HDBK-217F(25°C)										
	DIMENSION	62.2*27.4*45.5mm (L*W*H)										
	PACKING	109g; 110pcs / 13kg / CARTON for cable connection; 56.2g; 90pcs / 7.5kg / CARTON for USB connection										
CONNECTOR	PLUG CABLE	See page 4~5; Other type available by customer requested										
NOTE												
	1.All parameters are specified at 115VAC 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 0.1 uf & 47 uf capacitor.											
	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.											
IOTE	6.Load regulation is measured from 10% to 100% rated load											
NOTE	7 Th	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										
NOTE		•						P				
NOTE	EMC directives. For guidan	ce on how to pe		C tests, please i	refer to "EMI test	ting of compone	nt power supp	olies."				
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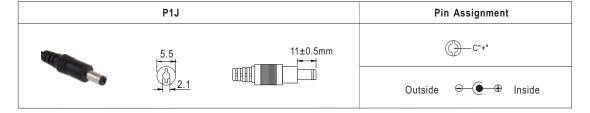




### **■** DC output plug

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">https://www.meanwell.com/upload/pdf/DC</a> plug.pdf

Example quick adapter accessory:



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

Tuning Fork Style			Type No.	А	АВ		Quick Adapter	
			Type No.	OD	ID	L	Accessory	
		C	P1I	5.5	2.1	9.5		
		(Straight)	P1L	5.5	2.5	9.5		
(Chia	- A-		P1M	5.5	2.5	11.0	Available	
	В	C	P1IR	5.5	2.1	9.5		
			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		
Barrel Style			Type No.	А	В	С		
Daniel Otyle			турстчо.	OD	ID	L		
		_ C_	P2I	5.5	2.1	9.5		
	A B	(Straight)	P2J	5.5	2.1	11.0		
			P2L	5.5	2.5	9.5	None	
			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		
		(Right-angled)	P2MR	5.5	2.5	11.0		
Lock Style			Type No.	Α	В	С		
				OD	ID	L		
	A	Floating Locking C-	P2S(S761K)	5.53	2.03	12.06	None	
			P2K(761K)	5.53	2.54	12.06		
0			P2C(S760K)	5.53	2.03	9.52		
SWITCHCRAFT original or equivalent			P2D(760K)	5.53	2.54	9.52		
Min. Pin Style			Type No.	Α	В	С		
			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OD	ID	L		
(III)	A	<del>C</del> _	P3A	2.35	0.7	11.0	Available	
		B THE THE	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 L	D Center Pin	Quick Adapter 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		11.0	0.6	(Current rating: 7.5A max.)
EIAJ equivalent	P40		5.1   11.0   0.6   Pin Assignment		0.0	
Min. DIN 3 Pin with Lock (male)	Type No.	PIN No. Output		l		
	R6B	1	,,	+Vo		Available
		2		-Vo		(Current rating: 7.5A max.)
KYCON KPPX-3P equivalent		3		+Vo		
			Pin Assignment			
Min. DIN 4 Pin with Lock (male)	Type No.		PIN No. Output			
	R7B	1	,	+Vo		Available
2 3		2		-Vo		(Current rating: 7.5A max.)
1 4		3		-Vo		
KYCON KPPX-4P equivalent		4		+Vo		
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment				
Will. Div 41 ill with Look (icinale)	1,701101	PIN No	).	Output		
	R7BF	1		+Vo		None
		3		-Vo		
KYCON KPJX-CM-4S equivalent		4		-Vo +Vo		
KTOOK KI OX OM 40 OQUITAION		Pin Assignment				
Stripped and tinned leads	Type No.	PIN No. Output				
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)		2 (Letter	•)	-Vo		

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