



(Cable connection)







- · Ultra slim
- · Universal AC input / Full range
- . 2 pole USA plug, Class II power unit
- No load power consumption <0.075W</li>
- $^{ullet}$  Energy efficiency Level  ${
  m VI}$
- · Comply with EISA 2007/DoE
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- · Pass LPS
- 3 years warranty



(USB connection)















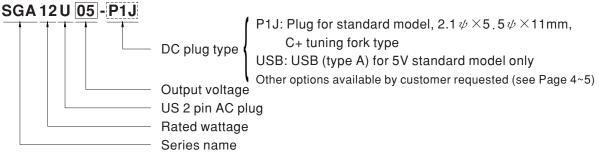
- · Consumer electronic devices
- Telecommunication devices
- · Office facilities
- · Industrial equipments

## 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  $\Pi$  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



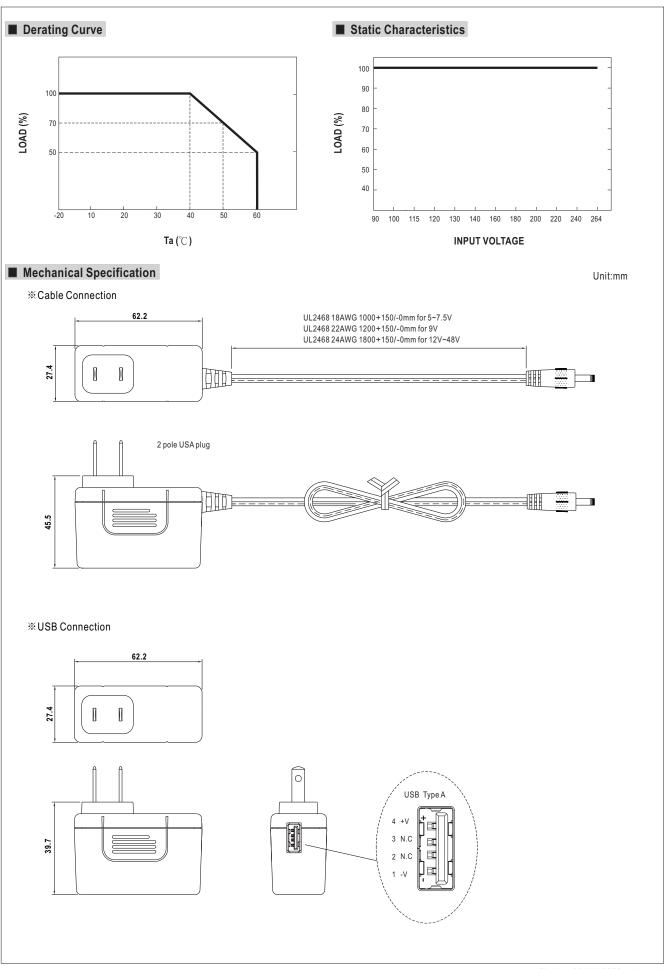
# 12W AC-DC High Reliability Slim Wall-mounted Adaptor SGA12U series

#### **SPECIFICATION**

ORDER NO.		SGA12U05-□ □=P1J, USB	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	0.666A	0.5A	0.25A
		0 ~ 2.4A			0 ~ 1A			0 ~ 0.5A	0 ~ 0.25A
	CURRENT RANGE		0 ~ 1.6A	0 ~ 1.33A		0 ~ 0.8A	0 ~ 0.666A		
	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%	$\pm 5.0\%$	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%
	LINE REGULATION Note.5	±1.0%	$\pm 1.0\%$	±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	1300ms, 50ms,	12ms/230VAC	1300ms, 50	ms, 12ms/115VA	C at full load			
	VOLTAGE RANGE	90 ~ 264VAC							
	FREQUENCY RANGE	47 ~ 63Hz							
INPUT	EFFICIENCY (Typ.)	80%	83%	83%	83%	84.5%	85%	85%	86%
INPUI	AC CURRENT	0.5A / 115VAC	0.25A / 230	VAC				•	
	INRUSH CURRENT (max.)	Cold start 30A	/ 115VAC 6	0A / 230VAC					
	LEAKAGE CURRENT(max.)	0.25mA / 240VA	AC .						
	OVERLOAD	110 ~ 200% rated output power 120 ~ 250% rated ou							ted output powe
PROTECTION		Protection type: Hiccup mode, recovers automatically after fault condition is removed							
	OVER VOLTAGE		ed output voltage		-1				
	WORKING TEMP.	Protection type: Clamp by zener diode, output short							
	WORKING HUMIDITY	-20 ~ +60°C (Refer to "Derating Curve")  20% ~ 90% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-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	UL60950-1, CSA C22.2, EAC TP TC 004 approved							
	WITHSTAND VOLTAGE	I/P-O/P:4242VDC							
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/70% RH							
EMC		Parameter	arameter Standard 7		Tes	Test Level / Note			
(Note. 7)	EMC EMISSION	Conducted en	nission	FCC PART 1	FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B)			ass B	
		Radiated emis	ssion	FCC PART 1	FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B)			ass B	
	LIFE	3 years : 100% load 40°C, 8hours / day							
OTHERS	MTBF	265Khrs min. MIL-HDBK-217F(25°C)							
	DIMENSION	62.2*27.4*39.7mm (L*W*H)							
	PACKING	109g; 110pcs / 13kg / CARTON for cable connection; 56.2g; 90pcs / 7.5kg / CARTON for USB connection							
CONNECTOR	PLUG			able by custome	· ·				
	CABLE See page 4~5; Other type available by customer requested								
NOTE	<ul> <li>1.All parameters are specified at 115VAC input, rated load, 25°C 70% RH ambient.</li> <li>2.DC voltage: The output voltage set at point measure by plug terminal &amp; 50% load.</li> <li>3.Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf &amp; 47µf capacitor.</li> </ul>								
	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.								
	6.Load regulation is measure		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						
		ered as an inde	oendent unit, bu	t the final equip	ment still need to	re-confirm that	the whole syst	em complies with	the
							-	•	the

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#### **■** DC output plug

### O Standard plug: P1J



P1J		Pin Assignment
5.5	11±0.5mm	Outside ⊕ ⊕ Inside

### Optional DC plug:

Tuning For	Type No.	А	В	С	
Tulling For	туре но.	OD	ID	L	
		P1I	5.5	2.1	9.5
	(Straight)	P1L	5.5	2.5	9.5
A		P1M	5.5	2.5	11.0
A B		P1IR	5.5	2.1	9.5
→ LB		P1JR	5.5	2.1	11.0
		P1LR	5.5	2.5	9.5
	(Right-angled)	P1MR	5.5	2.5	11.0
Barrel	Type No.	Α	В	С	
Barrer	Type No.	OD	ID	L	
	(Straight)	P2I	5.5	2.1	9.5
		P2J	5.5	2.1	11.0
Δ		P2L	5.5	2.5	9.5
		P2M	5.5	2.5	11.0
A 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
11- 6	Type No.	Α	В	С	
Lock S		OD	ID	L	
Α.	SWITCHCRAFT original or equivalent		5.53	2.03	12.06
			5.53	2.54	12.06
			5.53	2.03	9.52
SV	P2D(760K)	5.53	2.54	9.52	
Min. Pin	Type No.	Α	В	С	
IVIIII I III V	1,700.101	OD	ID	L	
A.	<del>C</del>	P3A	2.35	0.7	11.0
A B	EIAJ equivalent	P3B	4.0	1.7	11.0
<b>→</b>		P3C	4.75	1.7	11.0

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Center Pin Style	Type No.	A OD	B ID	С	D Conton Bio	
C	D44			L	Center Pin	
	P4A	5.5	3.4	11.0	1.0	
	P4B	6.5	4.4	11.0	1.4	
EIAJ equivalent	P4C	7.4	5.1	11.0	0.6	
Min. DIN 3 Pin with Lock (male)	Type No.	Pin Assignment				
Will. Dily 31 ill with Lock (male)		PIN No	).	Output		
		1		+Vo		
	R6B	2		-Vo		
3 KYCON KPPX-3P equivalent		3		+Vo		
M: DIN ( B:	Tour Ma	Pin Assignment				
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No	).	Output		
(nan	R7B	1		+Vo		
		2		-Vo		
KYCON KPPX-4P equivalent		3		-Vo		
KTCON KFFX-4F equivalent		4		+Vo		
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment				
Willi. Dily 4 Fill Willi Lock (lelliale)	турстчо.	PIN No	).	Output		
_	R7BF	1		+Vo		
23 14 1000010		2		-Vo		
		3		-Vo		
KYCON KPJX-CM-4S equivalent		4		+Vo		
Stripped and tinned leads	Type No.	Pin Assignment				
Otripped and timied leads	турстто.	PIN No	).	Output		
1 xxx 2	by customer	1 (Ribbed	)	+Vo		
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

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