





























■ Features

- · Ultra slim
- · Universal AC input / Full range
- · 2 pole USA plug, Class Ⅱ power unit
- No load power consumption<0.075W
- 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: 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

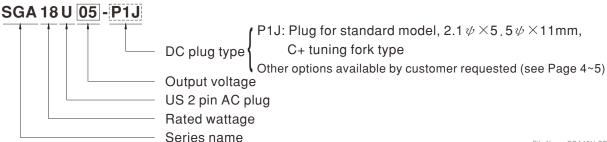
MW Search: https://www.meanwell.com/serviceGTIN.aspx

■ Description

SGA18U is a 18W ultra slim wall-mounted style single-output green adaptor series, which is compact and convenient for carry. SGA18U is a class $\[mathbb{I}\]$ 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, SGA18U is compliant with the latest U.S. energy regulation EISA 2007/DoE(Level $\rm VI$). 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



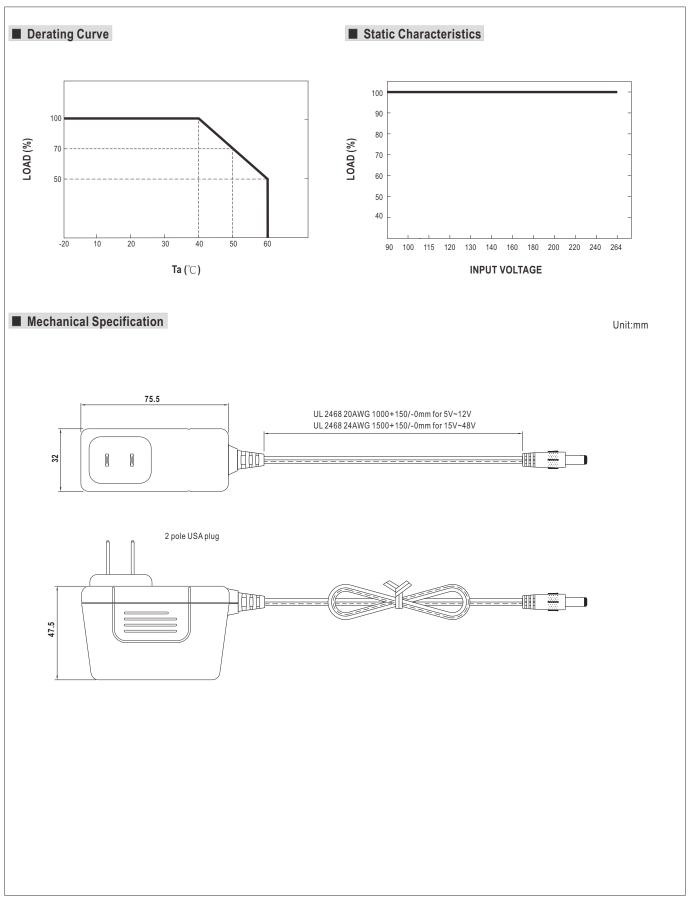
18W AC-DC High Reliability Slim Wall-mounted Adaptor SGA 18U series

SPECIFICATION

ORDER NO.		SGA18U05-P1J	SGA18U09-P1J	SGA18U12-P1J	SGA18U15-P1J	SGA18U18-P1J	SGA18U24-P1J	SGA18U48-P1J			
	SAFETY MODEL NO.	SGA18U05	SGA18U09	SGA18U12	SGA18U15	SGA18U18	SGA18U24	SGA18U48			
OUTPUT											
	DC VOLTAGE Note.2		9V	12V	15V	18V	24V	48V			
	RATED CURRENT	3A	2A	1.5A	1.2A	1A	0.75A	0.375A			
	CURRENT RANGE	0 ~ 3A	0 ~ 2A	0 ~ 1.5A	0 ~ 1.2A	0 ~ 1A	0 ~ 0.75A	0 ~ 0.375A			
	RATED POWER (max.)	15W	18W	18W	18W	18W	18W	18W			
	RIPPLE & NOISE (max.) Note.3	80mVp-p	80mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	120mVp-p			
	VOLTAGE TOLERANCE Note.4	±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%			
	LOAD REGULATION Note.6	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%			
	SETUP, RISE, HOLD UP TIME	1500ms, 30ms, 10	Oms/230VAC	1500ms, 30ms, 10i	ms/115VAC at full I	oad					
	VOLTAGE RANGE	90 ~ 264VAC									
	FREQUENCY RANGE	47 ~ 63Hz									
INDUT	EFFICIENCY (Typ.)	80.5%	84%	84%	84%	84.5%	85%	86%			
INPUT	AC CURRENT	0.5A / 115VAC	0.25A / 230VAC					'			
	INRUSH CURRENT (max.)	Cold start 30A/115VAC 45A/230VAC									
	LEAKAGE CURRENT(max.)	0.25mA / 240VAC	;								
	OVERLOAD	120 ~ 180% rated output power									
DDOTESTIC:	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION	OVER VOLTAGE	110 ~ 140% rated	output voltage								
	OVER VOLIAGE	Protection type: Clamp by zener diode, output short									
	WORKING TEMP.	-20 ~ +60 °C (Refer to "Derating Curve")									
	WORKING HUMIDITY	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 WITHSTAND VOLTAGE	UL62368-1, CSA C22.2 NO. 62368-1, EAC TP TC 004 approved									
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:4242VDC I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH									
EMC	IOOLATION REGISTANCE	Parameter		Standard		Test Level / Note					
(Note. 7)	EMC EMISSION	Conducted emiss		FCC PART 15 / CIS	SDD22 CANICES						
	LINIC LIMISSION				· · · · · · · · · · · · · · · · · · ·	Class B					
	LIEE	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 DIMENSION	450Khrs min. MIL-HDBK-217F(25°C)									
	PACKING	75.5*32*47.5mm (L*W*H)									
	PLUG	150g; 60pcs / 10kg / CARTON									
CONNECTOR	CABLE			· · · · · · · · · · · · · · · · · · ·							
	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 0.1uf & 47uf capacitor.										
	4. Tolerance: includes set up tolerance, line regulation, load regulation.										
NOTE	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)										

File Name:SGA18U-SPEC 2022-04-15







■ 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 Fo	Type No.	А	В	С	Quick Adapter	
running FC	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	Aveilable
A B		P1IR	5.5	2.1	9.5	Available
→ T+ <u>P</u>	(Right-angled)	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	
Barrel	Type No.	Α	В	С		
Dailei	турстчо.	OD	ID	L		
	, C ,	P2I	5.5	2.1	9.5	
		P2J	5.5	2.1	11.0	
Λ.		P2L	5.5	2.5	9.5	None
A D B	(Straight)	P2M	5.5	2.5	11.0	110110
□ D _B	C	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		
LOOK		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.	А	В	С		
IVIIII. I III	1 9 0 1 1 0 .	OD	ID	L		
,A,	C _	P3A	2.35	0.7	11.0	Available
A B		P3B	4.0	1.7	11.0	(Current rating: 5A max.)
-H	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	
LAL 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		0.0			
Min. DIN 3 Pin with Lock (male)	Type No.	PIN No. Output					
	R6B	1		+Vo		Available (Current rating: 7.5A max.)	
(°°) ₁ 2		2		-Vo			
KYCON KPPX-3P equivalent		3		+Vo			
	T NI -	Pin Assignment					
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No).	Output			
	R7B	1		+Vo		Available (Current rating: 7.5A max.)	
2 3 IIIII A		2		-Vo			
KYCON KPPX-4P equivalent		3		-Vo			
TOOM IT X-41 Equivalent		4		+Vo			
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment					
min 2 nv 11 m min 200k (romalo)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PIN No).	Outpu			
	R7BF	1		+Vo		None	
2 3 [TUTUTU]		3		-Vo			
KYCON KPJX-CM-4S equivalent		4		-Vo			
KTOON IN OX-OM-40 EQUIVALENT		4 +Vo Pin Assignment					
Stripped and tinned leads	Type No.	PIN No. Output		t	-		
1 2 L1	by customer	1 (Ribbed		+V0		None	
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