



■ 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 separately, 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

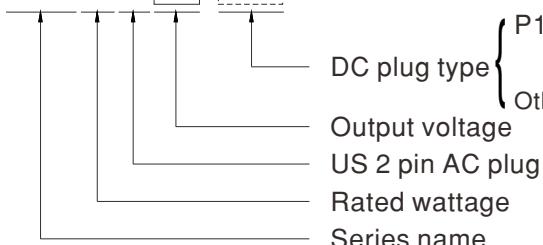
■ Description

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 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, SGA18U 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

SGA 18 U **05** -P1J



DC plug type { P1J: Plug for standard model, 2.1 ψ × 5.5 ψ × 11mm,
C+ tuning fork type

Other options available by customer requested (see Page 4~5)

Output voltage

US 2 pin AC plug

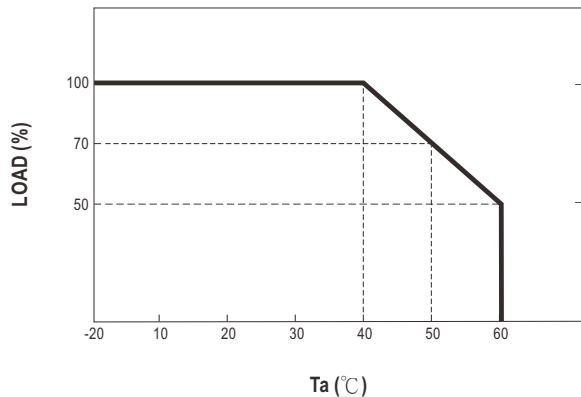
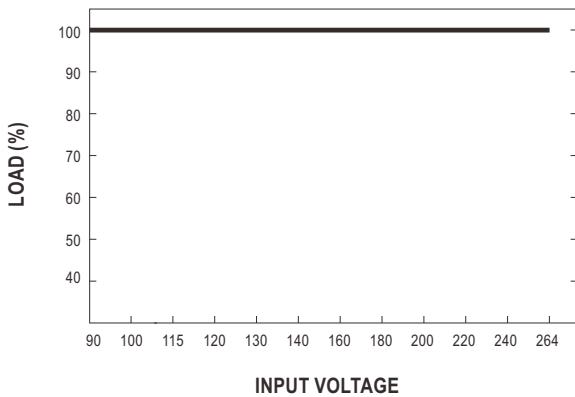
Rated wattage

Series name

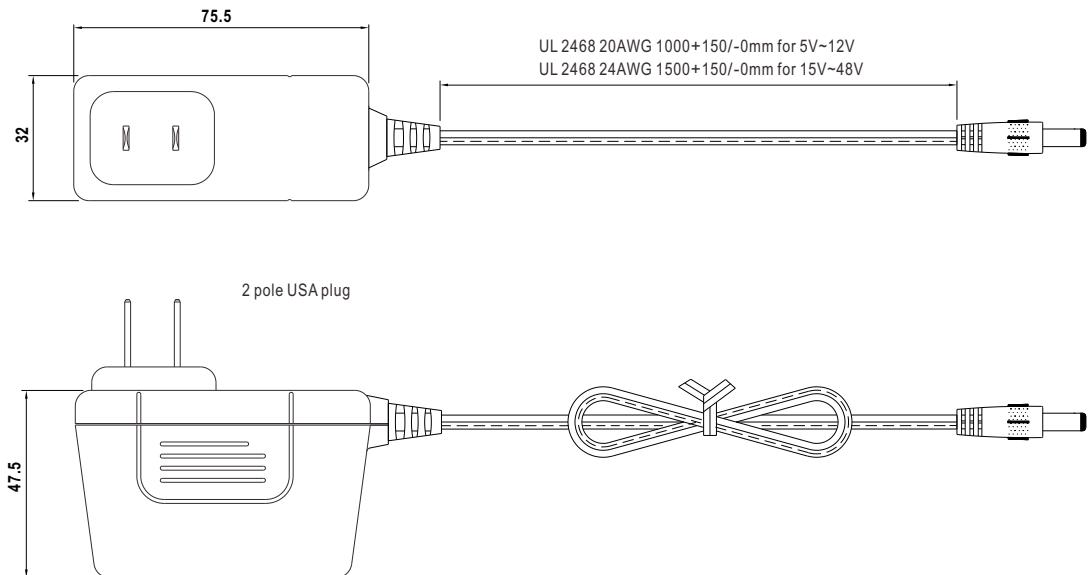


SPECIFICATION

ORDER NO.	SGA18U05-P1J	SGA18U09-P1J	SGA18U12-P1J	SGA18U15-P1J	SGA18U18-P1J	SGA18U24-P1J	SGA18U48-P1J							
OUTPUT	SAFETY MODEL NO.	SGA18U05	SGA18U09	SGA18U12	SGA18U15	SGA18U18	SGA18U24	SGA18U48						
	DC VOLTAGE Note.2	5V	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, 10ms/230VAC			1500ms, 30ms, 10ms/115VAC at full load									
INPUT	VOLTAGE RANGE	90 ~ 264VAC												
	FREQUENCY RANGE	47 ~ 63Hz												
	EFFICIENCY (Typ.)	80.5%	84%	84%	84%	84.5%	85%	86%						
	AC CURRENT	0.5A / 115VAC	0.25A / 230VAC											
	INRUSH CURRENT (max.)	Cold start 30A / 115VAC	45A / 230VAC											
	LEAKAGE CURRENT(max.)	0.25mA / 240VAC												
PROTECTION	OVERLOAD	120 ~ 180% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed												
	OVER VOLTAGE	110 ~ 140% rated output voltage Protection type : Clamp by zener diode, output short												
ENVIRONMENT	WORKING TEMP.	-20 ~ +60°C (Refer to "Derating Curve")												
	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 10min./1cycle, period for 60min. each along X, Y, Z axes												
SAFETY & EMC (Note. 7)	SAFETY STANDARDS	UL62368-1, CSA C22.2 NO. 62368-1, EAC TP TC 004 approved												
	WITHSTAND VOLTAGE	I/P-O/P:4242VDC												
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH												
	EMC EMISSION	Parameter	Standard			Test Level / Note								
		Conducted emission	FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B)			Class B								
		Radiated emission	FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B)			Class B								
OTHERS	LIFE	3 years : 100% load 40°C, 8hours / day												
	MTBF	450Khrs min. MIL-HDBK-217F(25°C)												
CONNECTOR	DIMENSION	75.5*32*47.5mm (L*W*H)												
	PACKING	150g ; 60pcs / 10kg / CARTON												
NOTE	PLUG	See page 4~5 ; Other type available by customer requested												
	CABLE	See page 4~5 ; Other type available by customer requested												
		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. 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) ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx												

■ Derating Curve**■ Static Characteristics****■ Mechanical Specification**

Unit:mm



■ DC output plug

- ◎ Standard plug: P1J

Unit:mm

P1J	Pin Assignment
 	 Outside - + Inside

- ◎ DC plug changeable through:

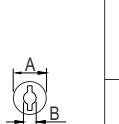
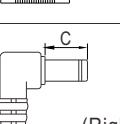
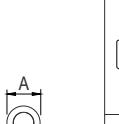
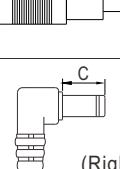
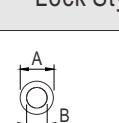
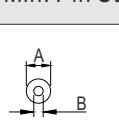
- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
- (2) Quick adapter accessory (sold separately without MOQ)

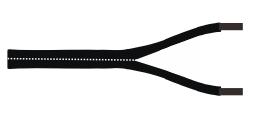
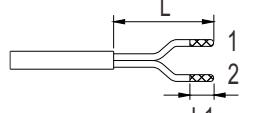
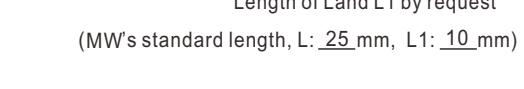
Please refer to below table and online selection guide : https://www.meanwell.com/upload/pdf/DC_plug.pdf

Example quick adapter accessory:



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

Tuning Fork Style	Type No.	A	B	C	Quick Adapter Accessory
		OD	ID	L	
  	P1I	5.5	2.1	9.5	Available (Current rating: 7.5A max.)
	P1L	5.5	2.5	9.5	
	P1M	5.5	2.5	11.0	
	P1IR	5.5	2.1	9.5	
	P1JR	5.5	2.1	11.0	
	P1LR	5.5	2.5	9.5	
	P1MR	5.5	2.5	11.0	
Barrel Style		Type No.	A	B	None
  	Type No.	OD	ID	L	
	P2I	5.5	2.1	9.5	
	P2J	5.5	2.1	11.0	
	P2L	5.5	2.5	9.5	
	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	
Lock Style		Type No.	A	B	None
  	Type No.	OD	ID	L	
	P2S(S761K)	5.53	2.03	12.06	
	P2K(761K)	5.53	2.54	12.06	
	P2C(S760K)	5.53	2.03	9.52	
Min. Pin Style		Type No.	A	B	Available (Current rating: 5A max.)
 	Type No.	OD	ID	L	
	P3A	2.35	0.7	11.0	
	P3B	4.0	1.7	11.0	
	P3C	4.75	1.7	11.0	

Center Pin Style	Type No.	A	B	C	D	Quick Adapter Accessory	
		OD	ID	L	Center Pin		
	P4A	5.5	3.4	11.0	1.0	Available (Current rating: 7.5A max.)	
		6.5	4.4	11.0	1.4		
		7.4	5.1	11.0	0.6		
Min. DIN 3 Pin with Lock (male)	R6B	Pin Assignment				Available (Current rating: 7.5A max.)	
		PIN No.	Output				
		1	+Vo				
	R7B	2	-Vo			Available (Current rating: 7.5A max.)	
		3	+Vo				
		4	+Vo				
		PIN No.	Output				
	R7BF	1	+Vo			None	
		2	-Vo				
		3	-Vo				
		4	+Vo				
Stripped and tinned leads	by customer	Pin Assignment				None	
		PIN No.	Output				
		1 (Ribbed)	+Vo				
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>