

UL62368-1 IEC62368-1 TPTC004



■ 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

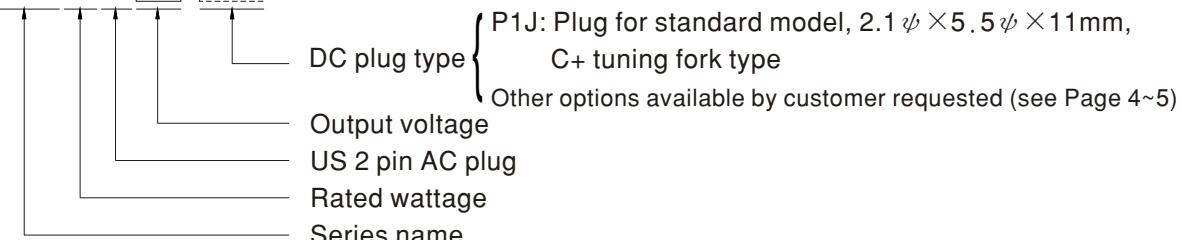
■ Description

SGA40U is a 40W ultra slim wall-mounted style single-output green adaptor series, which is compact and convenient for carry. SGA40U 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 89% and the extremely low no-load power consumption below 0.075W, SGA40U 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 40 U 05 -P1J





SPECIFICATION

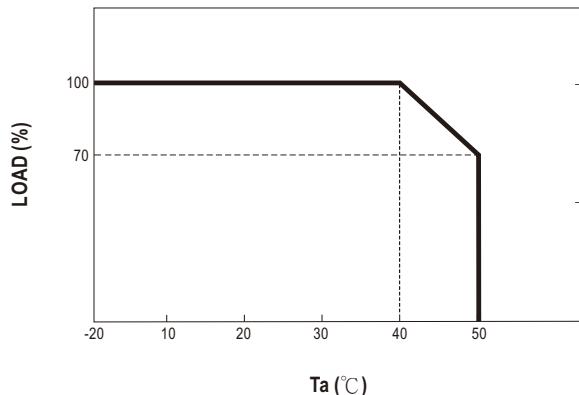
ORDER NO.	SGA40U05-P1J	SGA40U09-P1J	SGA40U12-P1J	SGA40U15-P1J	SGA40U18-P1J	SGA40U24-P1J	SGA40U48-P1J						
OUTPUT	SAFETY MODEL NO.	SGA40U05	SGA40U09	SGA40U12	SGA40U15	SGA40U18	SGA40U24	SGA40U48					
	DC VOLTAGE Note.2	5V	9V	12V	15V	18V	24V	48V					
	RATED CURRENT	5A	4.44A	3.33A	2.66A	2.22A	1.66A	0.83A					
	CURRENT RANGE	0 ~ 5A	0 ~ 4.44A	0 ~ 3.33A	0 ~ 2.66A	0 ~ 2.22A	0 ~ 1.66A	0 ~ 0.83A					
	RATED POWER (max.)	25W	40W	40W	40W	40W	40W	40W					
	RIPPLE & NOISE (max.) Note.3	120mVp-p	120mVp-p	120mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p					
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±3.0%	±2.0%	±2.0%	±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%	±2.0%	±2.0%	±2.0%	±2.0%					
SETUP, RISE, HOLD UP TIME		1500ms, 100ms, 10ms/230VAC 1500ms, 100ms, 10ms/115VAC at full load											
INPUT	VOLTAGE RANGE Note.7	90 ~ 264VAC											
	FREQUENCY RANGE	47 ~ 63Hz											
	EFFICIENCY (Typ.)	83%	86.5%	86.5%	86.5%	87%	88%	89%					
	AC CURRENT	1A / 115VAC	0.5A / 230VAC										
	INRUSH CURRENT (max.)	Cold start	40A / 115VAC	70A / 230VAC									
	LEAKAGE CURRENT(max.)	0.25mA / 240VAC											
PROTECTION	OVERLOAD	110 ~ 250% 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 ~ +50°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. 8)	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							
OTHERS		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						
CONNECTOR	LIFE	3 years : 100% load 40°C, 12hours / day											
	MTBF	400Khrs min. MIL-HDBK-217F(25°C)											
NOTE	DIMENSION	75.5*32*47.5mm (L*W*H)											
	PACKING	165g ; 60pcs / 13kg / CARTON											
	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.Derating may be needed under low input voltage. Please check the derating curve for more details. 8.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											



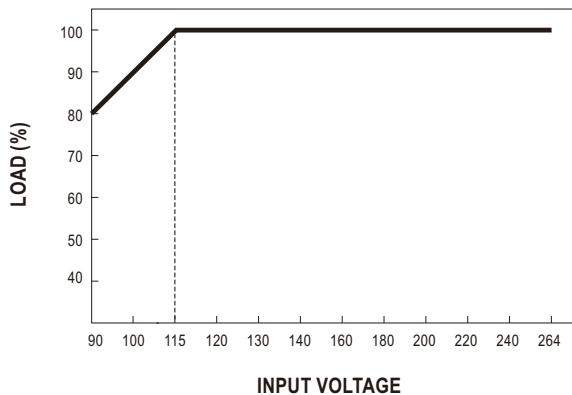
40W AC-DC High Reliability Slim Wall-mounted Adaptor

SGA40U series

■ Derating Curve

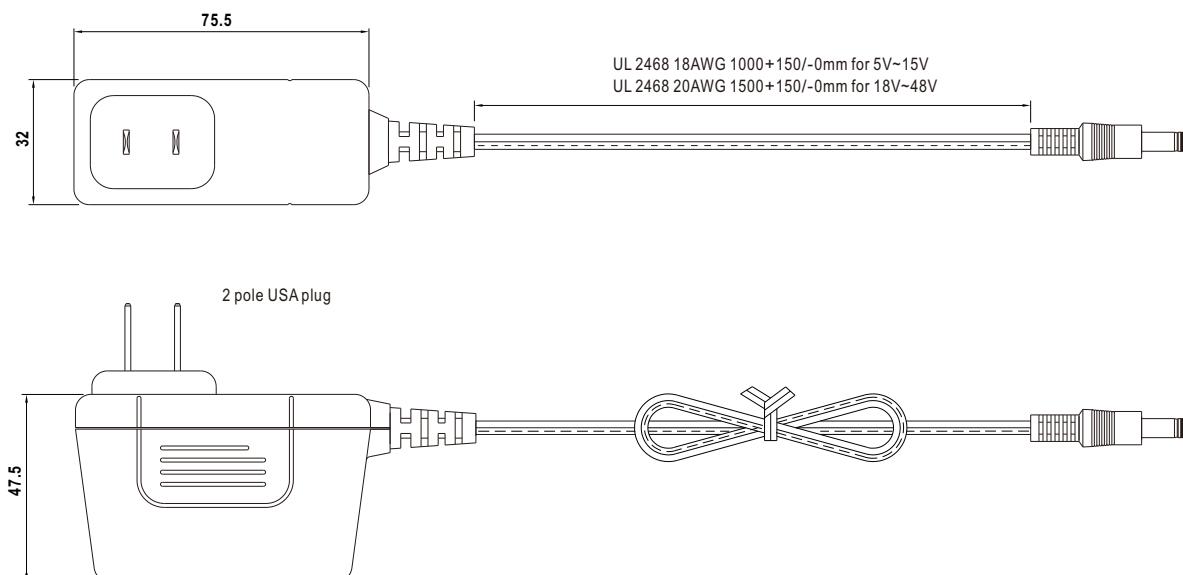


■ Static Characteristics



■ 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:



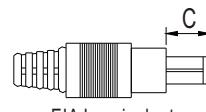
- ◎ Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork Style	Type No.	A	B	C	Quick Adapter Accessory
		OD	ID	L	
 (Straight)	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	C	None
 (Straight)	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	
	P2MR	5.5	2.5	11.0	
Lock Style		Type No.	A	C	None
 Floating Locking	P2S(S761K)	5.53	2.03	12.06	
	P2K(761K)	5.53	2.54	12.06	
	P2C(S760K)	5.53	2.03	9.52	
	P2D(760K)	5.53	2.54	9.52	
Min. Pin Style		Type No.	A	C	Available (Current rating: 5A max.)
 EIAJ equivalent	P3A	2.35	0.7	11.0	
	P3B	4.0	1.7	11.0	
	P3C	4.75	1.7	11.0	



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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.)	
	P4B	6.5	4.4	11.0	1.4		
	P4C	7.4	5.1	11.0	0.6		
Min. DIN 3 Pin with Lock (male)	Type No.	Pin Assignment					
		PIN No.		Output			
		1		+Vo		Available (Current rating: 7.5A max.)	
Min. DIN 4 Pin with Lock (male)	Type No.	2		-Vo			
		3		+Vo			
		4		+Vo			
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment					
		PIN No.		Output			
		1		+Vo		None	
Stripped and tinned leads	Type No.	2		-Vo			
		3		-Vo			
		4		+Vo			
	by customer	Pin Assignment					
		PIN No.		Output			
		1 (Ribbed or White)		+Vo		None	
Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)		2 (Letter or Black)		-Vo			

■ Installation Manual

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