



BS EN/EN62368-1 IEC62368-1 TPTC004



■ Features

- Ultra slim
- Universal AC input / Full range
- 2 pole EURO plug, Class II power unit
- No load power consumption<0.075W
- **Energy efficiency Level VI**
- Comply with EU ErP and meet CoC version 5
- 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

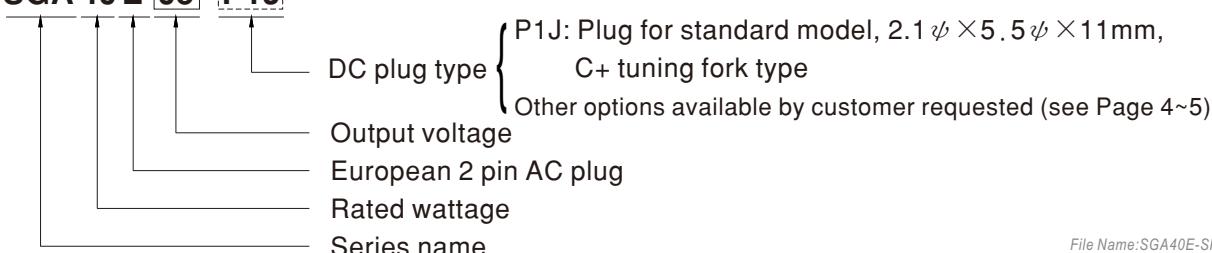
■ Description

SGA40E is a 40W ultra slim wall-mounted style single-output green adaptor series, which is compact and convenient for carry. SGA40E is a class II power unit (no FG) equipped with the standard 2-Pin European 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, SGA40E is compliant with EU ErP and meet CoC version 5. 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 E 05 -P1J



SPECIFICATION

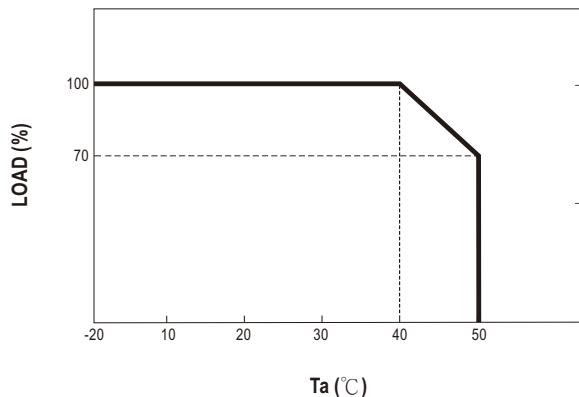
ORDER NO.	SGA40E05-P1J	SGA40E09-P1J	SGA40E12-P1J	SGA40E15-P1J	SGA40E18-P1J	SGA40E24-P1J	SGA40E48-P1J										
OUTPUT	SAFETY MODEL NO.	SGA40E05	SGA40E09	SGA40E12	SGA40E15	SGA40E18	SGA40E24	SGA40E48									
	DC VOLTAGE Note.2	5V	9V	12V	15V	18V	24V	48V									
	RATED CURRENT	5A	4.44A	3.33A	2.66A	2.22A	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															
ENVIRONMENT	OVER VOLTAGE	110 ~ 140% rated output voltage															
		Protection type : Clamp by zener diode, output short															
SAFETY & EMC (Note. 8)	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	TUV BS EN/EN62368-1, 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	BS EN/EN55032(CISPR32)	Class B													
		Radiated emission	BS EN/EN55032(CISPR32)	Class B													
		Harmonic current	BS EN/EN61000-3-2	Class A													
	EMC IMMUNITY	Voltage flicker	BS EN/EN61000-3-3	-----													
		Parameter	Standard	Test Level / Note													
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air; Level 2, 4KV contact													
		RF field susceptibility	BS EN/EN61000-4-3	Level 2, 3V/m													
		EFT bursts	BS EN/EN61000-4-4	Level 2, 1KV													
		Surge susceptibility	BS EN/EN61000-4-5	Level 3, 1KV/L-N													
		Conducted susceptibility	BS EN/EN61000-4-6	Level 2, 3V													
		Magnetic field immunity	BS EN/EN61000-4-8	Level 1, 1A/m													
		Voltage dips , interruption	BS EN/EN61000-4-11	>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods													
OTHERS	LIFE	3 years : 100% load 40°C, 12hours / day															
	MTBF	400Khrs min. MIL-HDBK-217F(25°C)															
CONNECTOR	DIMENSION	75.5*32*47.5mm (L*W*H)															
	PACKING	165g ; 60pcs / 13kg / 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 230VAC 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																	



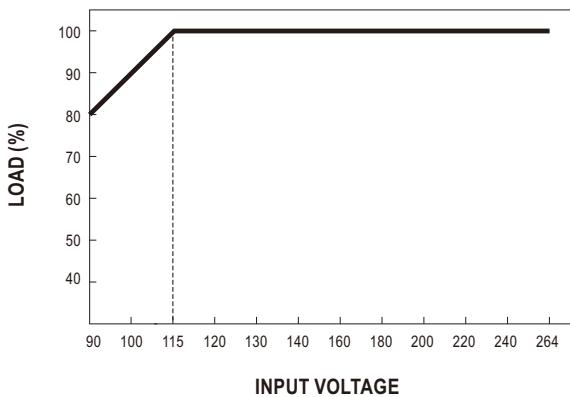
40WAC-DC High Reliability Slim Wall-mounted Adaptor

SGA40E series

■ Derating Curve

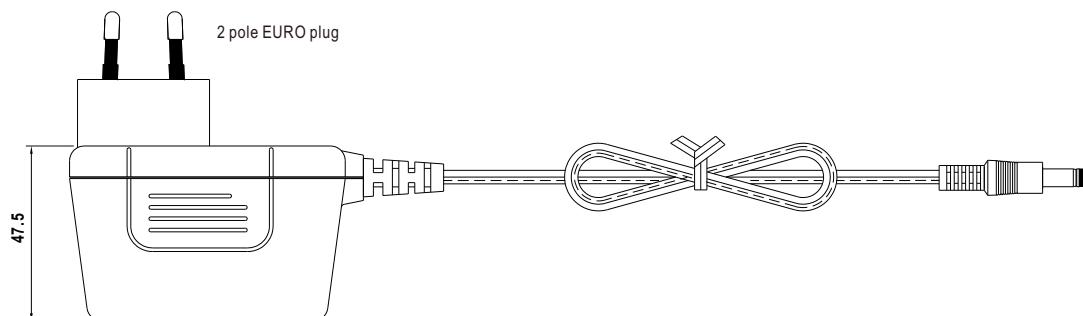
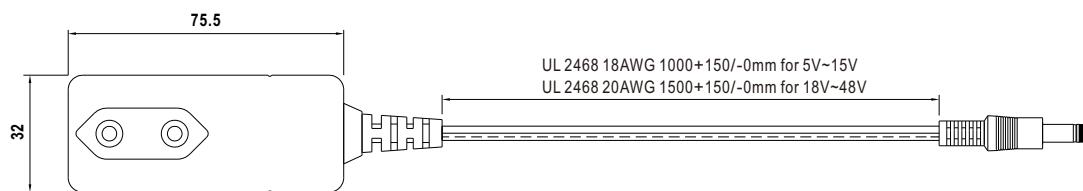


■ Static Characteristics



■ Mechanical Specification

Unit:mm



■ DC output plug

- ◎ Standard plug: P1J

Unit:mm

P1J	Pin Assignment
	Outside

- ◎ 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:



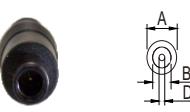
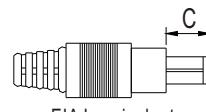
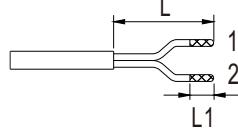
- ◎ Optional DC plug: (Available in customized cable or quick adapter)

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	



40WAC-DC High Reliability Slim Wall-mounted Adaptor

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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				Available (Current rating: 7.5A max.)	
		PIN No.	Output				
		1	+Vo				
	R6B	2	-Vo				
		3	+Vo				
Min. DIN 4 Pin with Lock (male)		Pin Assignment				Available (Current rating: 7.5A max.)	
	R7B	PIN No.	Output				
		1	+Vo				
		2	-Vo				
		3	-Vo				
		4	+Vo				
Min. DIN 4 Pin with Lock (female)	R7BF	Pin Assignment				None	
		PIN No.	Output				
		1	+Vo				
		2	-Vo				
	R7BF	3	-Vo				
		4	+Vo				
Stripped and tinned leads		Pin Assignment					
	by customer	PIN No.	Output			None	
		1 (Ribbed or White)	+Vo				
Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)	by customer	2 (Letter or Black)	-Vo				

■ Installation Manual

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