



■ Features

- Ultra slim
- Universal AC input / Full range
- 2 pole EURO plug, Class II power unit
- No load power consumption < 0.075W for 5~7.5V
<0.15W for 9 ~48V
- **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
- LED indicator for power on
- 54V model available for PoE(optional)
- [Various DC plug quick adapter accessory available](https://www.meanwell.com/upload/pdf/DC_plug.pdf)
(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

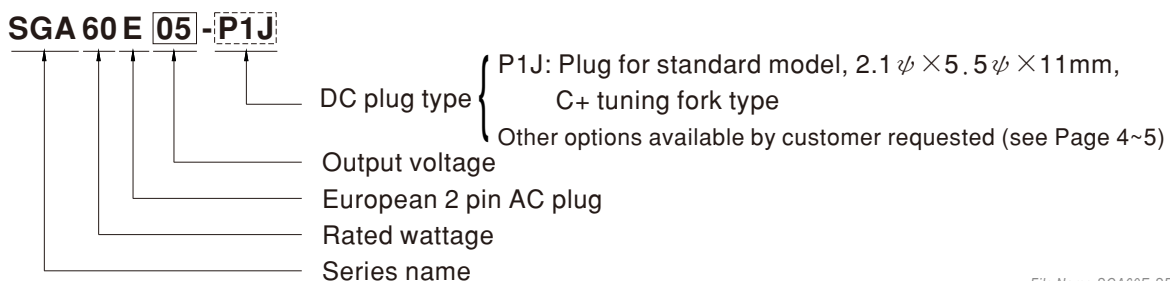
■ Description

SGA60E is a 60W ultra slim wall-mounted style single-output green adaptor series, which is compact and convenient for carry. SGA60E 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 89.5% and the extremely low no-load power consumption below 0.075W for 5~7.5V, below 0.15W for 9 ~48V, SGA60E is compliant with EU ErP and 9~48V 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 60 E 05 -P1J

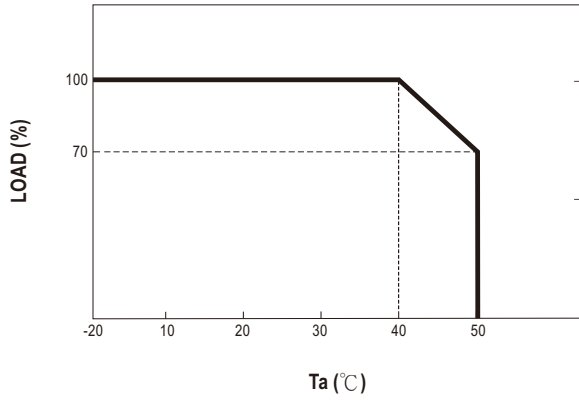




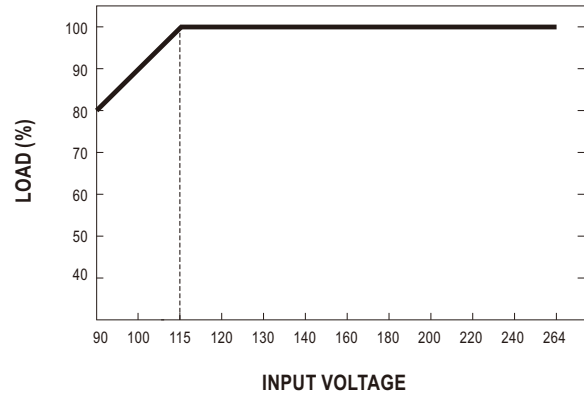
SPECIFICATION

ORDER NO.	SGA60E05-P1J	SGA60E07-P1J	SGA60E09-P1J	SGA60E12-P1J	SGA60E15-P1J	SGA60E18-P1J	SGA60E24-P1J	SGA60E48-P1J			
OUTPUT	SAFETY MODEL NO.	SGA60E05	SGA60E07	SGA60E09	SGA60E12	SGA60E15	SGA60E18	SGA60E24	SGA60E48		
	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V		
	RATED CURRENT	6A	6A	5.5A	5A	4A	3.33A	2.5A	1.25A		
	CURRENT RANGE	0 ~ 6A	0 ~ 6A	0 ~ 5.5A	0 ~ 5A	0 ~ 4A	0 ~ 3.33A	0 ~ 2.5A	0 ~ 1.25A		
	RATED POWER (max.)	30W	45W	50W	60W	60W	60W	60W	60W		
	RIPPLE & NOISE (max.) Note.3	80mVp-p	80mVp-p	80mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	120mVp-p		
	VOLTAGE TOLERANCE Note.4	± 5.0%	± 5.0%	± 5.0%	± 3.0%	± 3.0%	± 2.0%	± 2.0%	± 2.0%		
	LINE REGULATION Note.5	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%		
	LOAD REGULATION Note.6	± 5.0%	± 5.0%	± 5.0%	± 3.0%	± 3.0%	± 2.0%	± 2.0%	± 2.0%		
SETUP, RISE, HOLD UP TIME	2500ms, 50ms, 10ms/230VAC 2500ms, 50ms, 10ms/115VAC at full load										
INPUT	VOLTAGE RANGE Note.7	90 ~ 264VAC									
	FREQUENCY RANGE	47 ~ 63Hz									
	EFFICIENCY (Typ.)	83.5%	85%	86.5%	87.5%	87%	88%	88%	89.5%		
	AC CURRENT	1.5A / 115VAC 0.75A / 230VAC									
	INRUSH CURRENT (max.)	Cold start 40A / 115VAC 80A / 230VAC									
LEAKAGE CURRENT(max.)	0.25mA / 240VAC										
PROTECTION	OVERLOAD	110 ~ 200% 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	TUV 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	EN55032(CISPR32)						Class B		
		Radiated emission	EN55032(CISPR32)						Class B		
		Harmonic current	EN61000-3-2						Class A		
	Voltage flicker	EN61000-3-3						-----			
	EMC IMMUNITY	Parameter	Standard						Test Level / Note		
		ESD	EN61000-4-2						Level 3, 8KV air; Level 2, 4KV contact		
RF field susceptibility		EN61000-4-3						Level 2, 3V/m			
EFT bursts		EN61000-4-4						Level 2, 1KV			
Surge susceptibility		EN61000-4-5						Level 3, 1KV/L-N			
Conducted susceptibility		EN61000-4-6						Level 2, 3V			
Magnetic field immunity		EN61000-4-8						Level 1, 1A/m			
Voltage dips , interruption	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)									
	DIMENSION	93.5*35*51.5mm (L*W*H)									
	PACKING	250g ; 60pcs / 17kg / CARTON									
CONNECTOR	PLUG	See page 4~5 ; Other type available by customer requested									
	CABLE	See page 4~5; Other type available by customer requested									
NOTE	<p>1.All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.</p> <p>2.DC voltage: The output voltage set at point measure by plug terminal & 50% load.</p> <p>3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.</p> <p>4.Tolerance: includes set up tolerance, line regulation, load regulation.</p> <p>5.Line regulation is measured from low line to high line at rated load.</p> <p>6.Load regulation is measured from 10% to 100% rated load</p> <p>7.Derating may be needed under low input voltage. Please check the derating curve for more details.</p> <p>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)</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>										

■ Derating Curve

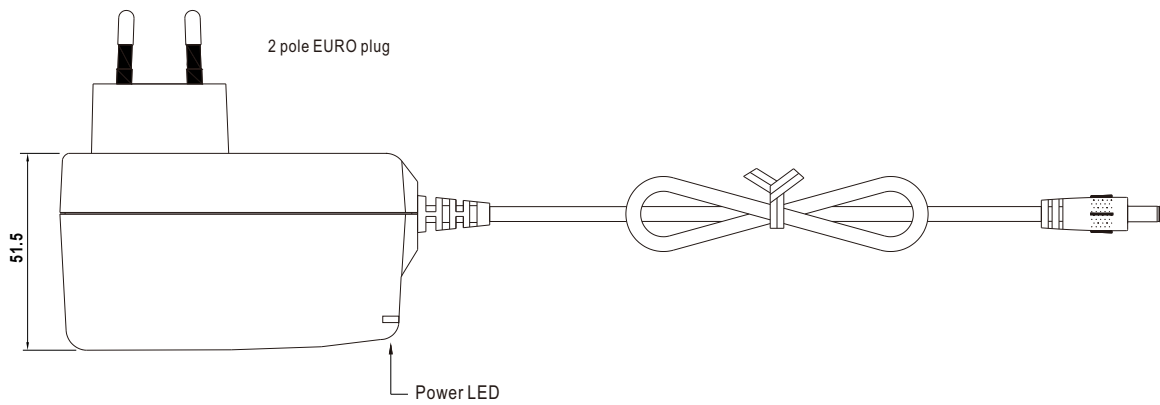
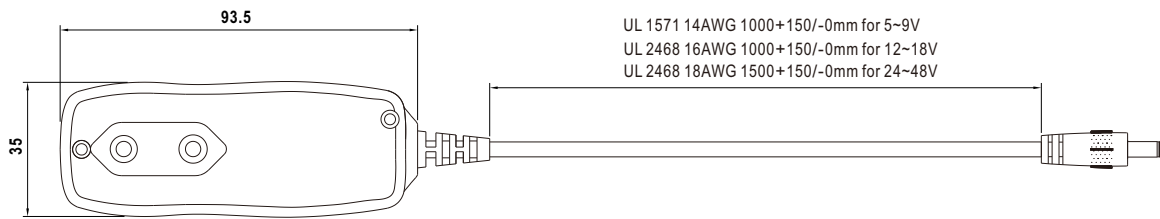


■ Static Characteristics



■ 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)				Available (Current rating: 7.5A max.)	
		P1I	5.5	2.1	9.5		
		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		
		(Right-angled)					
P1LR	5.5	2.5	9.5				
P1MR	5.5	2.5	11.0				
Barrel Style		Type No.	A	B	C	None	
			OD	ID	L		
		(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		
		(Right-angled)					
		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	B	C	None	
			OD	ID	L		
		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		
SWITCHCRAFT original or equivalent							
Min. Pin Style		Type No.	A	B	C	Available (Current rating: 5A max.)	
			OD	ID	L		
		(EIAJ equivalent)					
		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.)
	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				
	R6B	PIN No.	Output			
		1	+Vo			
		2	-Vo			
		3	+Vo			
				Pin Assignment		
		PIN No.	Output			
		1	+Vo			
		2	-Vo			
		3	-Vo			
		4	+Vo			
Min. DIN 4 Pin with Lock (male)	Type No.	Pin Assignment				
	R7B	PIN No.	Output			
		1	+Vo			
		2	-Vo			
		3	-Vo			
		4	+Vo			
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment				
	R7BF	PIN No.	Output			
		1	+Vo			
		2	-Vo			
		3	-Vo			
		4	+Vo			
Stripped and tinned leads	Type No.	Pin Assignment				
<p>Length of Land L1 by request (MW's standard length, L: 25 mm, L1: 10 mm)</p>	by customer	PIN No.	Output			
		1 (Ribbed or White)	+Vo			
		2 (Letter or Black)	-Vo			

■ Installation Manual

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