



BS EN/EN62368-1 IEC62368-1



■ Features

- Ultra slim and compact size
- Universal AC input / Full range
- 2 pole EURO plug, Class II power unit
- No load power consumption < 0.15W
- **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
- 7.5V /9V/ 18V models available (by request)
- **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

■ GTIN CODE

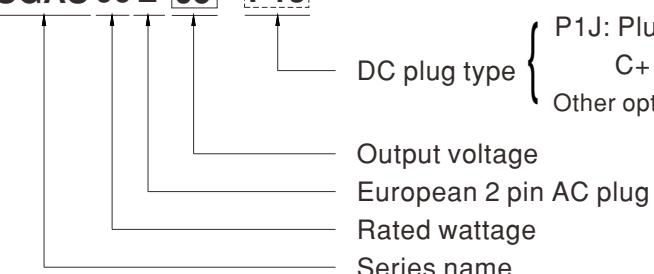
 MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

■ Description

SGAS60E is a 60W compact size wall-mounted style single-output green adaptor series, which is compact and convenient for carry. SGAS60E 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 90% and the extremely low no-load power consumption below 0.15W, SGAS60E is compliant with EU ErP and 5~48V 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

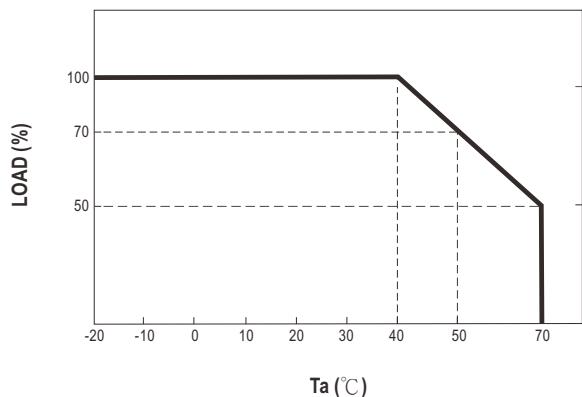
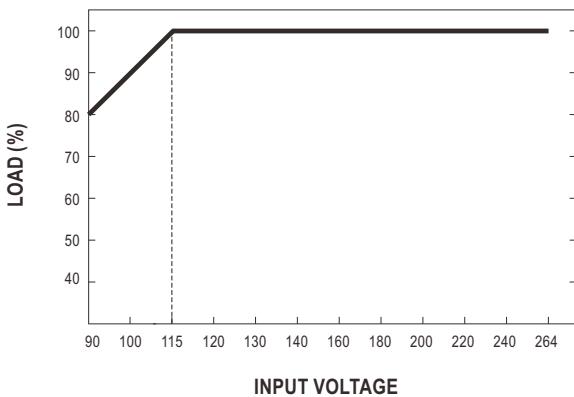
SGAS 60 E 05 - P1J


P1J: Plug for standard model, $2.1\psi \times 5.5\psi \times 11\text{mm}$,
C+ tuning fork type

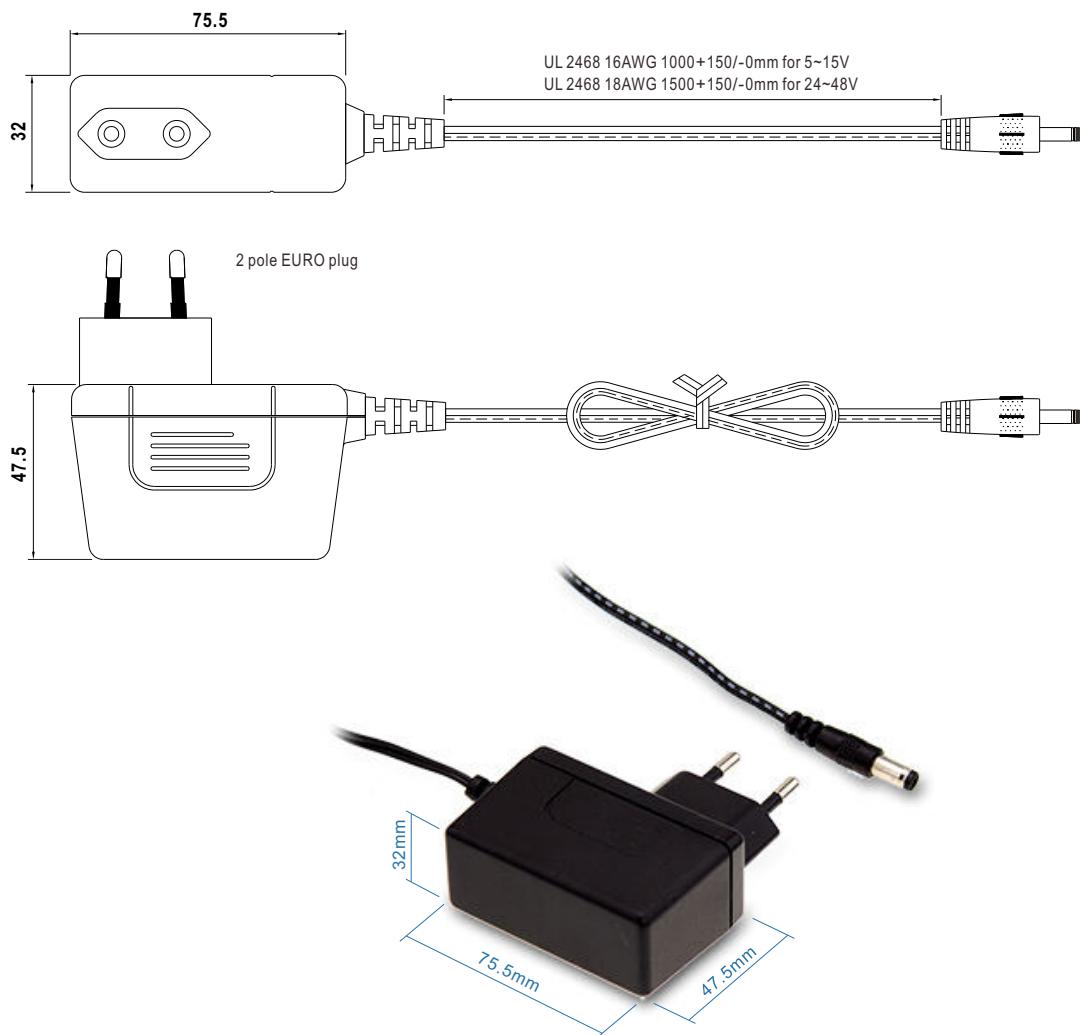
Other options available by customer requested (see Page 4~5)

SPECIFICATION

ORDER NO.	SGAS60E05-P1J	SGAS60E12-P1J	SGAS60E15-P1J	SGAS60E24-P1J	SGAS60E48-P1J						
OUTPUT	SAFETY MODEL NO.	SGAS60E05	SGAS60E12	SGAS60E15	SGAS60E24						
	DC VOLTAGE Note.2	5V	12V	15V	24V						
	RATED CURRENT	6A	5A	4A	2.5A						
	CURRENT RANGE	0 ~ 6A	0 ~ 5A	0 ~ 4A	0 ~ 2.5A						
	RATED POWER (max.)	30W	60W	60W	60W						
	RIPLE & NOISE (max.) Note.3	80mVp-p	80mVp-p	80mVp-p	100mVp-p						
	VOLTAGE TOLERANCE Note.4	± 5.0%	± 3.0%	± 3.0%	± 2.0%						
	LINE REGULATION Note.5	± 1.0%	± 1.0%	± 1.0%	± 1.0%						
	LOAD REGULATION Note.6	± 5.0%	± 3.0%	± 3.0%	± 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	127 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz									
	EFFICIENCY (Typ.)	85%	88%	88%	89%						
	AC CURRENT	1.5A / 115VAC	0.75A / 230VAC								
	INRUSH CURRENT (max.)	Cold start 40A / 115VAC	80A / 230VAC								
PROTECTION	LEAKAGE CURRENT(max.)	0.25mA / 240VAC									
	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 ~ +70°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 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)									
	DIMENSION	75.5*32*47.5mm (L*W*H)									
CONNECTOR	PACKING	208g ; 60pcs / 13.5kg / CARTON									
	PLUG	See page 4~5 ; Other type available by customer requested									
	CABLE	See page 4~5; Other type available by customer requested									
NOTE	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 0% 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										

■ 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)

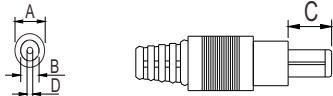
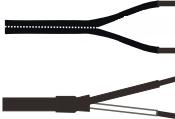
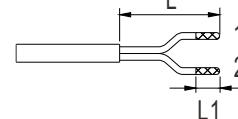
Please refer to below table and online selection guide : https://www.meanwell.com/upload/pdf/DC_plug.pdf

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	C	None
 	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
 	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.)
 	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				Available (Current rating: 7.5A max.)	
		PIN No.		Output			
		1		+Vo			
	R6B	2		-Vo		Available (Current rating: 7.5A max.)	
		3		+Vo			
Min. DIN 4 Pin with Lock (male)		Pin Assignment					
	R7B	PIN No.		Output		Available (Current rating: 7.5A max.)	
		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			
		3		-Vo			
		4		+Vo			
Stripped and tinned leads	by customer	Pin Assignment				None	
		PIN No.		Output			
		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)		2 (Letter or Black)		-Vo			

■ Installation Manual

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