60W AC-DC High Reliable Extreme Small Wall-mounted Industrial Adaptor SGAS60E series



User's Manual

Video

BS EN/EN62368-1 IEC62368-1

ECO Household Automate Industrial Security Network Telecom

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 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

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

- DC plug type
  - P1J: Plug for standard model, 2.1φ×5.5φ×11mm, C+ tuning fork type
  - Other options available by customer requested (see Page 4~5)
- Output voltage
- European 2 pin AC plug
- Rated wattage
- Series name

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60W AC-DC High Reliable Extreme Small Wall-mounted Industrial Adaptor SGAS60E series

SPECIFICATION

ORDER NO.		SGAS60E05-P1J	SGAS60E12-P1J	SGAS60E15-P1J	SGAS60E24-P1J	SGAS60E48-P1J
OUTPUT	SAFETY MODEL NO.	SGAS60E05	SGAS60E12	SGAS60E15	SGAS60E24	SGAS60E48
	DC VOLTAGE Note.2	5V	12V	15V	24V	48V
	RATED CURRENT	6A	5A	4A	2.5A	1.25A
	CURRENT RANGE	0 ~ 6A	0 ~ 5A	0 ~ 4A	0 ~ 2.5A	0 ~ 1.25A
	RATED POWER (max.)	30W	60W	60W	60W	60W
	RIPPLE & NOISE (max.) Note.3	80mVp-p	80mVp-p	80mVp-p	100mVp-p	120mVp-p
	VOLTAGE TOLERANCE Note.4	±5.0%	±3.0%	±3.0%	±2.0%	±2.0%
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION Note.6	±5.0%	±3.0%	±3.0%	±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 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	85%	88%	88%	89%	90%
	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 ~ +70℃ (Refer to "Derating Curve")				
	WORKING HUMIDITY	20% ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.03% / ℃ (0 ~ 40℃)				
	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℃/ 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		
		Voltage flicker	BS EN/EN61000-3-3	-------		
	EMC IMMUNITY	**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℃, 12hours / day				
	MTBF	400Khrs min. MIL-HDBK-217F(25℃)				
	DIMENSION	75.5*32*47.5mm (L*W*H)				
	PACKING	208g ; 60pcs / 13.5kg / 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

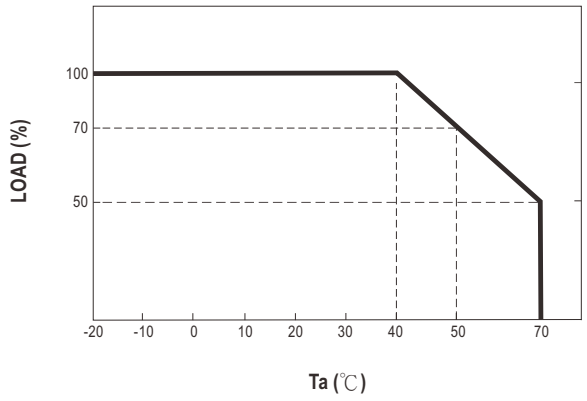
1.All parameters are specified at 230VAC input, rated load, 25℃ 70% RH ambient.
2.DC voltage: The output voltage set at point measure by plug terminal & 50% load.
3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
4.Tolerance: includes set up 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

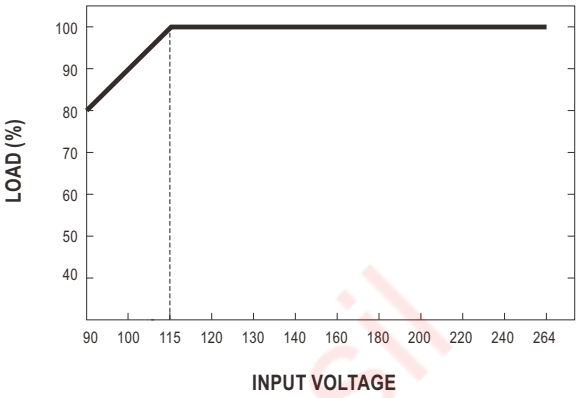
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■ Derating Curve

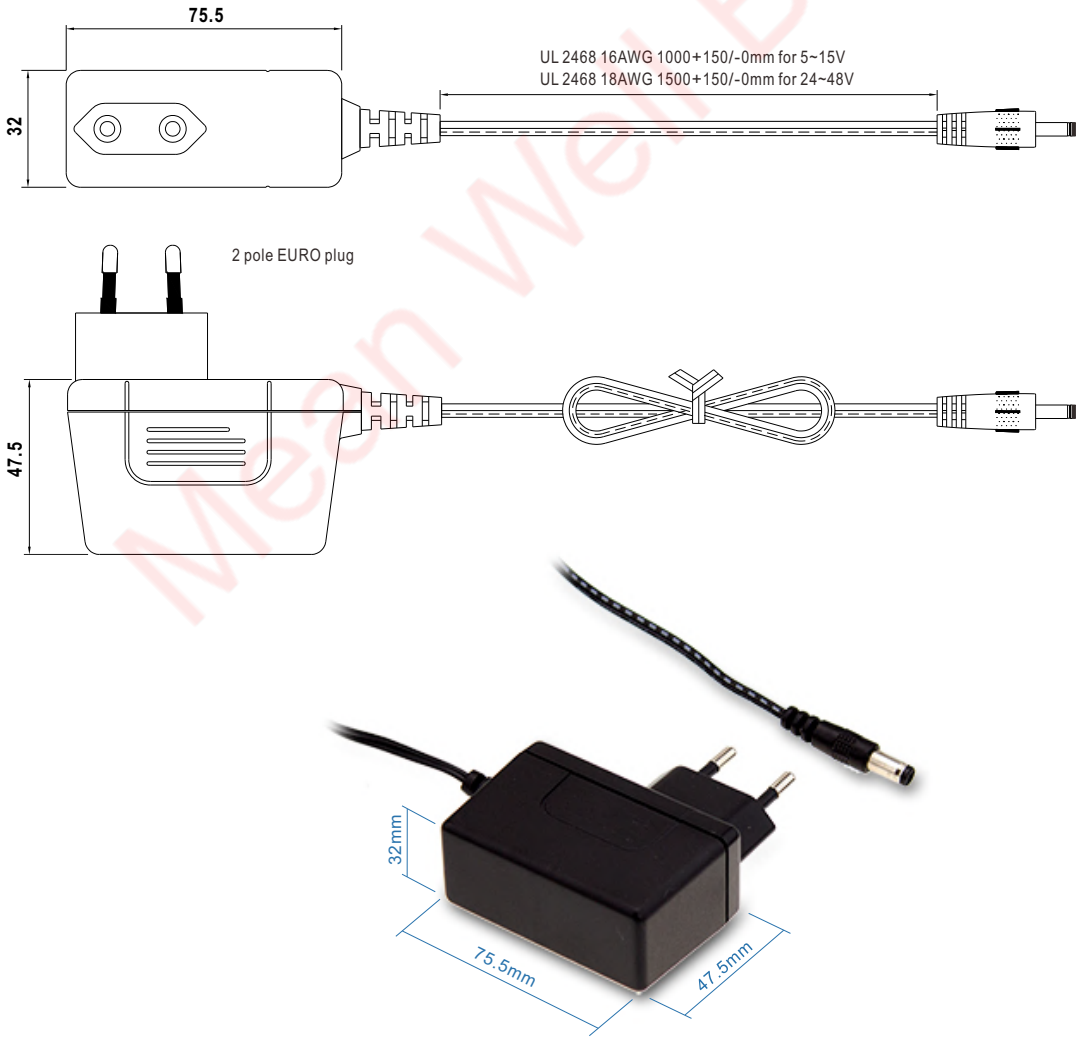


■ Static Characteristics



■ Mechanical Specification

Unit:mm



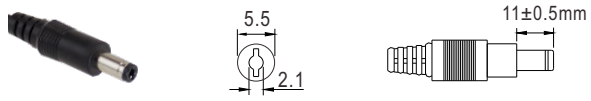
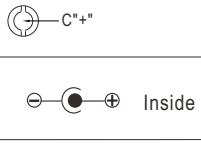
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■ DC output plug

◎ Standard plug: P1J

Unit:mm

P1J	Pin Assignment
	

◎ DC plug changeable through:

(1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)

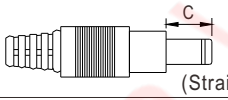
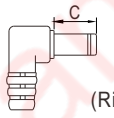
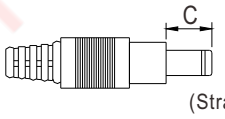
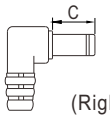
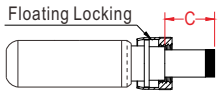
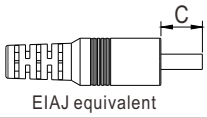
(2) Quick adapter accessory (sold separately without MOQ)

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

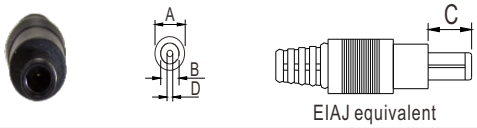
Example quick adapter accessory:

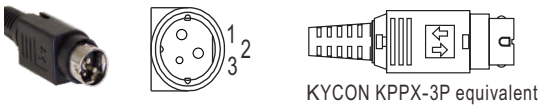


◎ Optional DC plug: (Available in customized cable or quick adapter)

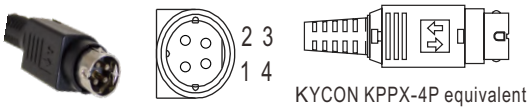
Tuning Fork Style	Type No.	A / OD	B / ID	C / L	Quick Adapter Accessory
  (Straight)  (Right-angled)	P1I	5.5	2.1	9.5	Available (Current rating: 7.5A max.)
	P1L	5.5	2.5	9.5	
	P1M	5.5	2.5	11.0	
	P1IR	5.5	2.1	9.5	
	P1JR	5.5	2.1	11.0	
	P1LR	5.5	2.5	9.5	
	P1MR	5.5	2.5	11.0	
Barrel Style	Type No.	A / OD	B / ID	C / L	
  (Straight)  (Right-angled)	P2I	5.5	2.1	9.5	None
	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 / OD	B / ID	C / L	
  SWITCHCRAFT original or equivalent	P2S(S761K)	5.53	2.03	12.06	None
	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 / OD	B / ID	C / L	
  EIAJ equivalent	P3A	2.35	0.7	11.0	Available (Current rating: 5A max.)
	P3B	4.0	1.7	11.0	
	P3C	4.75	1.7	11.0	

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Center Pin Style	Type No.	A OD	B ID	C L	D Center Pin	Quick Adapter Accessory
 EIAJ equivalent	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
 KYCON KPPX-3P equivalent	R6B	1	+Vo
		2	-Vo
		3	+Vo

Available (Current rating: 7.5A max.)

Min. DIN 4 Pin with Lock (male)	Type No.	Pin Assignment	
		PIN No.	Output
 KYCON KPPX-4P equivalent	R7B	1	+Vo
		2	-Vo
		3	-Vo
		4	+Vo

Available (Current rating: 7.5A max.)

Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment	
		PIN No.	Output
 KYCON KPJX-CM-4S equivalent	R7BF	1	+Vo
		2	-Vo
		3	-Vo
		4	+Vo

None

Stripped and tinned leads	Type No.	Pin Assignment	
		PIN No.	Output
 Length of Land L1 by request (MW's standard length, L: 25 mm, L1: 10 mm)	by customer	1 (Ribbed or White)	+Vo
		2 (Letter or Black)	-Vo

None

■ Installation Manual

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

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