



User's Manual



Video



Features

- Ultra slim and compact size
- Universal AC input / Full range
- 2 pole USA plug, Class II power unit
- No load power consumption <0.15W
- **Energy efficiency Level VI**
- Comply with EISA 2007/DoE
- 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

SGAS60U is a 60W compact size wall-mounted style single-output green adaptor series, which is compact and convenient for carry. SGAS60U 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 90% and the extremely low no-load power consumption below 0.15W, SGAS60U 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

SGAS 60 U 05 - P1J

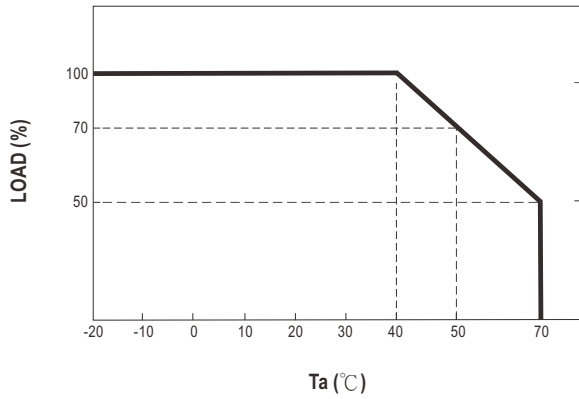
DC plug type { P1J: Plug for standard model, 2.1 ψ \times 5.5 ψ \times 11mm, C+ tuning fork type
Other options available by customer requested (see Page 4~5)

Output voltage
US 2 pin AC plug
Rated wattage
Series name

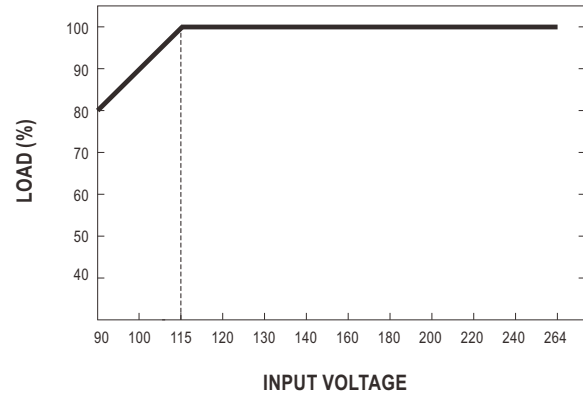
**SPECIFICATION**

ORDER NO.		SGAS60U05-P1J	SGAS60U12-P1J	SGAS60U15-P1J	SGAS60U24-P1J	SGAS60U48-P1J
OUTPUT	SAFETY MODEL NO.	SGAS60U05	SGAS60U12	SGAS60U15	SGAS60U24	SGAS60U48
	DC VOLTAGE <small>Note.2</small>	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	30W	60W	60W	60W	60W
	RIPPLE & NOISE (max.) <small>Note.3</small>	80mVp-p	80mVp-p	80mVp-p	100mVp-p	120mVp-p
	VOLTAGE TOLERANCE <small>Note.4</small>	±5.0%	±3.0%	±3.0%	±2.0%	±2.0%
	LINE REGULATION <small>Note.5</small>	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION <small>Note.6</small>	±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 <small>Note.7</small>	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% / °C (0 ~ 40℃)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY & EMC <small>(Note. 8)</small>	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℃ / 70% RH				
	EMC EMISSION	Parameter	Standard			Test Level / Note
		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	
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	200g ; 60pcs / 13kg / 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 115VAC 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					

Derating Curve

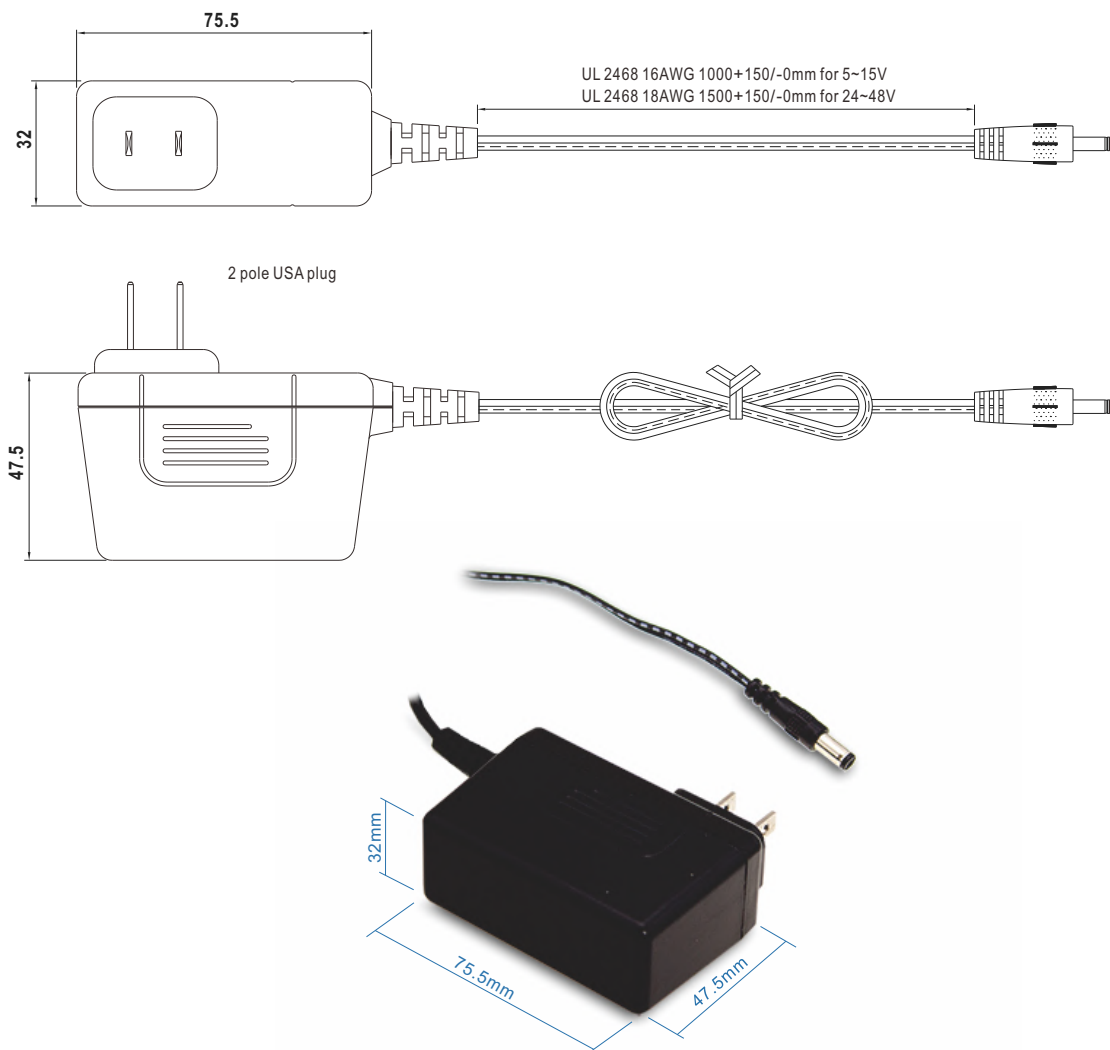


Static Characteristics



Mechanical Specification

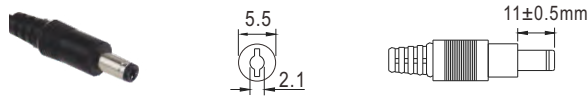


Unit:mm



DC output plug

Standard plug: P1J

Unit:mm

P1J	Pin Assignment
	
	Outside  Inside

DC plug changeable through:



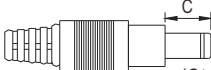







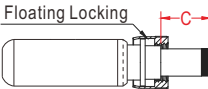



- Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
- Quick adapter accessory (sold separately without MOQ)



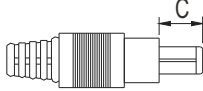


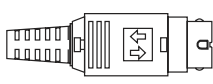

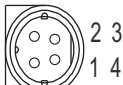
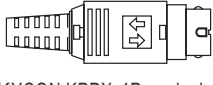


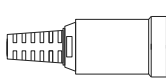
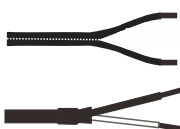
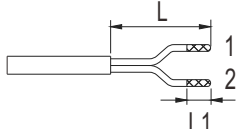
Please refer to below table and online selection guide : https://www.meanwell.com/upload/pdf/DC_plug.pdf

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	None
 	 (Straight)  (Right-angled)	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 OD	B ID	C L	None
 	 Floating Locking SWITCHCRAFT original or equivalent	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 OD	B ID	C L	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	

Center Pin Style	Type No.	A	B	C	D	Quick Adapter Accessory
		OD	ID	L	Center Pin	
   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				Available (Current rating: 7.5A max.)
		PIN No.	Output			
   KYCON KPPX-3P equivalent	R6B	1	+Vo			
		2	-Vo			
		3	+Vo			
Min. DIN 4 Pin with Lock (male)	Type No.	Pin Assignment				Available (Current rating: 7.5A max.)
		PIN No.	Output			
   KYCON KPPX-4P equivalent	R7B	1	+Vo			
		2	-Vo			
		3	-Vo			
		4	+Vo			
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment				None
		PIN No.	Output			
   KYCON KPJX-CM-4S equivalent	R7BF	1	+Vo			
		2	-Vo			
		3	-Vo			
		4	+Vo			
Stripped and tinned leads	Type No.	Pin Assignment				None
		PIN No.	Output			
  Length of Land L1 by request (MW's standard length, L: <u>25</u> _mm, L1: <u>10</u> _mm)	by customer	1 (Ribbed or White)	+Vo			
		2 (Letter or Black)	-Vo			

■ Installation Manual

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

Product Change Notice: Output cable change for GEM40/ SGA60/ SGAS60 series



Date : 2022/04/15

By: Frank Chen / Product Manager

Frank@meanwell.com

MEAN WELL has implemented changes to the output cable for part of the models under the following series: GEM40I, SGA60U/E and SGAS60U/E. The wire changes will not affect the characteristics or usage of the products. Implementation of the new version will commence starting April, 2022. Please note a conversion period with both old and new versions is expected, but the price remains the same. Please refer to the latest specifications on our website, or you can contact MEAN WELL's business representative.

Change in effect: 2022.04

Affected models:

GEM40I05-P1J

SGA60U05/07/09-P1J 、SGA60E05/07/09-P1J

SGAS60U05-P1J 、SGAS60E05-P1J

Change illustrations:

Difference between 2 versions

Old Version

UL 1571 @14AWG
(Thicker cable with round shape)



New Version

UL 2468 @16AWG
(Thinner cable with flat shape)

