



UL62368-1 IEC62368-1 TPTC004



## ■ Features :

- Extreme small and space-saving, takes up one spot on power strip
- Universal AC input / Full range
- 2 pole USA plug, Class II power unit
- No load power consumption<0.075W
- **Energy efficiency Level VI**
- Comply with EISA 2007/DoE
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- Pass LPS
- 7.5V / 18V / 48V 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](https://www.meanwell.com/upload/pdf/DC_plug.pdf) )
- 3 years warranty

## ■ Applications

- Consumer electronic devices
- Telecommunication devices
- Office facilities
- Industrial equipments

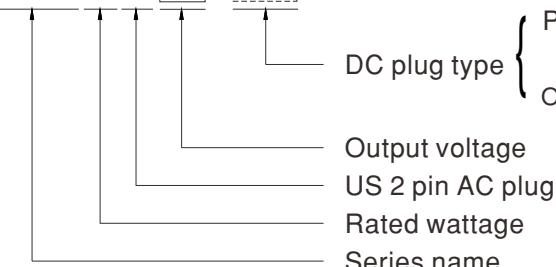
## ■ Description

SGAS15U is a 15W compact size highly reliable wall-mounted style single-output green adaptor series, which is compact and convenient for carry. SGAS15U 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 24VDC that it can satisfy the demands for various types of consumer electronic devices.

With the efficiency up to 86% and the extremely low no-load power consumption below 0.075W, SGAS15U 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 15 U [05] - [P1J]



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

**SPECIFICATION**

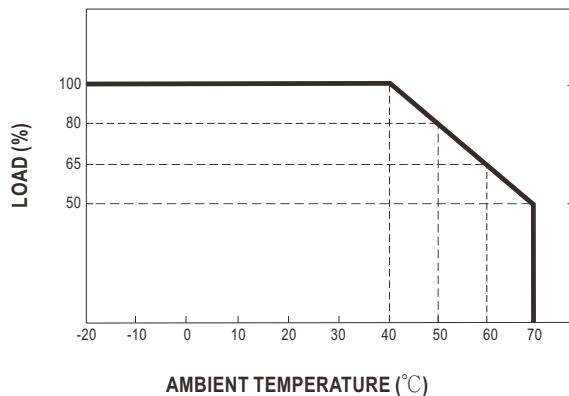
ORDER NO.		SGAS15U05-P1J	SGAS15U09-P1J	SGAS15U12-P1J	SGAS15U15-P1J	SGAS15U24-P1J			
OUTPUT	SAFETY MODEL NO.	SGAS15U05	SGAS15U09	SGAS15U12	SGAS15U15	SGAS15U24			
	DC VOLTAGE Note.2	5V	9V	12V	15V	24V			
	RATED CURRENT	2.40A	1.66A	1.25A	1.00A	0.625A			
	CURRENT RANGE	0 ~ 2.40A	1 ~ 1.66A	0 ~ 1.25A	0 ~ 1.00A	0 ~ 0.625A			
	RATED POWER	12W	15W	15W	15W	15W			
	RIPPLE & NOISE (max.) Note.3	80mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p			
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±3.0%	±3.0%	±2.0%			
	LINE REGULATION Note.5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
INPUT	LOAD REGULATION Note.6	±5.0%	±5.0%	±3.0%	±3.0%	±2.0%			
	SETUP, RISE, HOLD UP TIME	3000ms, 50ms, 10ms at full load							
PROTECTION	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	79%	84%	85%	85%	86%			
	AC CURRENT	0.4A / 100VAC							
	INRUSH CURRENT (max.)	Cold start 30A / 115VAC 50A / 230VAC							
	LEAKAGE CURRENT(max.)	0.25mA / 240VAC							
ENVIRONMENT	OVERLOAD	105 ~ 250% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed							
	OVER VOLTAGE	>120% rated output voltage Protection type : Clamp by zener diode							
SAFETY & EMC (Note. 7)	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. 7)	SAFETY STANDARDS	UL62368-1, CSA C22.2 NO. 62368-1, EAC TP TC 004 approved							
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 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°C, 12hours / day							
	MTBF	507Khrs min. MIL-HDBK-217F(25°C)							
CONNECTOR	DIMENSION	57.6*42.1*24.7mm (L*W*H)							
	PACKING	120g ; 72pcs / 10Kg / 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 115VAC 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 0.1µF & 47µF 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.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 <a href="http://www.meanwell.com">http://www.meanwell.com</a> ) ※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a>									



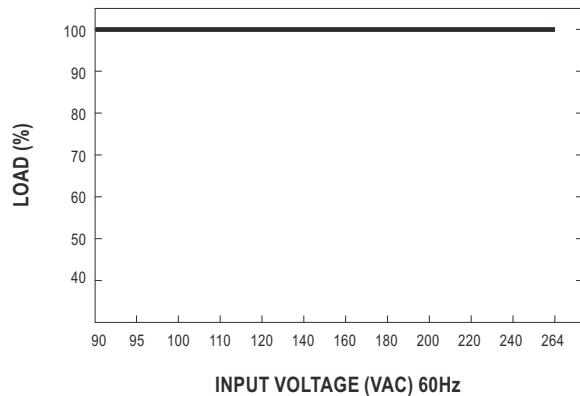
15W AC-DC High Reliable Extreme Small Wall-mounted Industrial Adaptor

**SGAS15U** series

■ Derating Curve

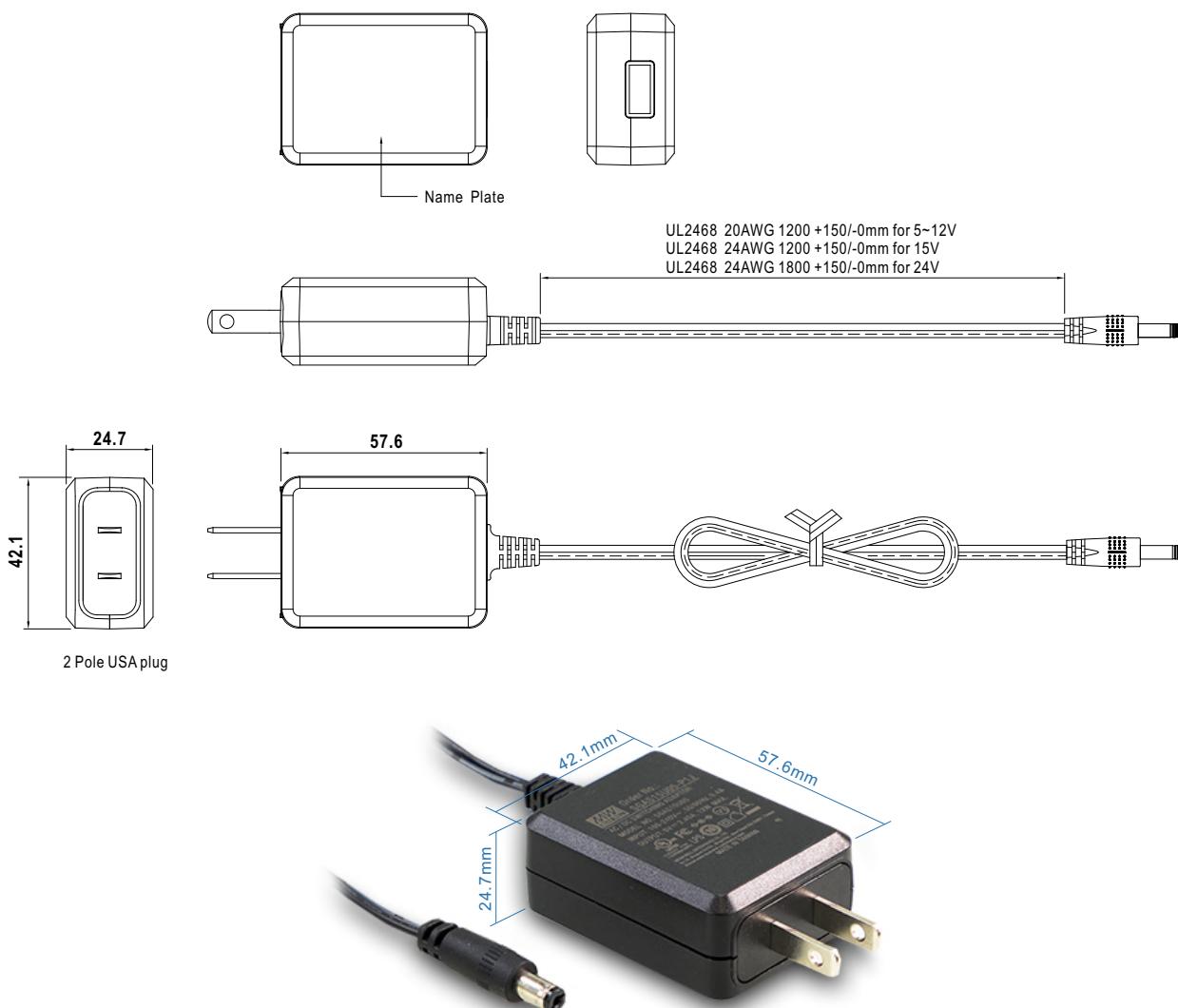


■ Static Characteristics



■ 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](https://www.meanwell.com/upload/pdf/DC_plug.pdf)

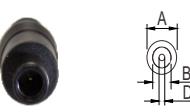
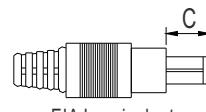
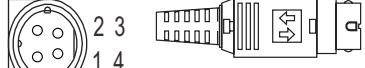
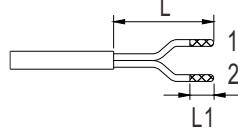
Example quick adapter accessory:



- ◎ 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
  	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	

15W AC-DC High Reliable Extreme Small Wall-mounted Industrial Adaptor **SGAS15U** series

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 ( White )		+Vo			
Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)		2 ( Black )		-Vo			

### ■ Installation Manual

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