



■ Features

- Extreme small
- Universal AC input / Full range
- 2 pole AC inlet IEC320-C8, Class II power unit
- No load power consumption<0.075W
- **Energy efficiency Level VI**
- Comply with EISA 2007/DoE, EU ErP and meet CoC Version 5
- 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 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

■ GTIN CODE

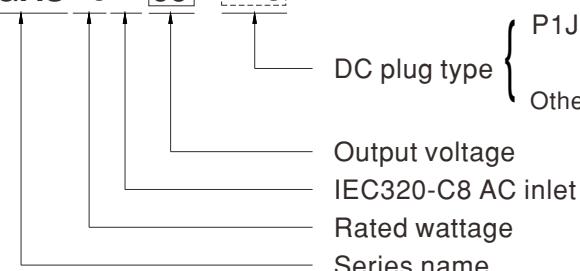
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

■ Description

SGAS15B is a 15W compact size highly reliable, desktop style single-output green adaptor series, which is compact and convenient for carry. This product is a class II power unit (no FG) equipped with the standard IEC320-C8 AC inlet and 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, SGAS15B is compliant with USA EISA 2007/DoE, EU ErP, and meet Code of Conduct(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 15 B [05] - [P1J]



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

Output voltage

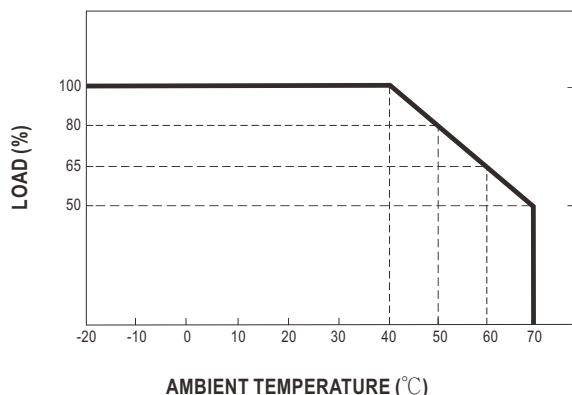
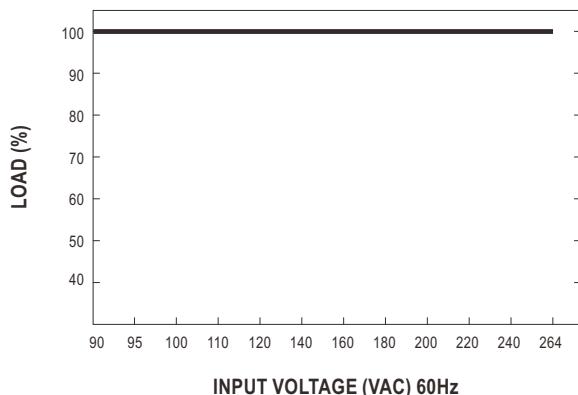
IEC320-C8 AC inlet

Rated wattage

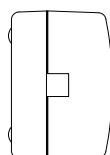
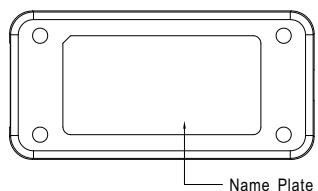
Series name

SPECIFICATION

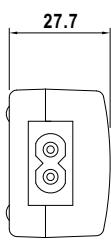
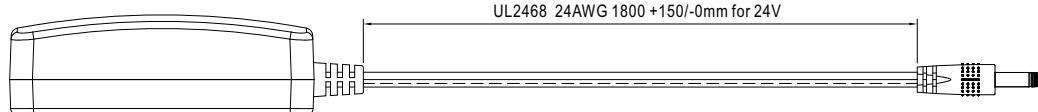
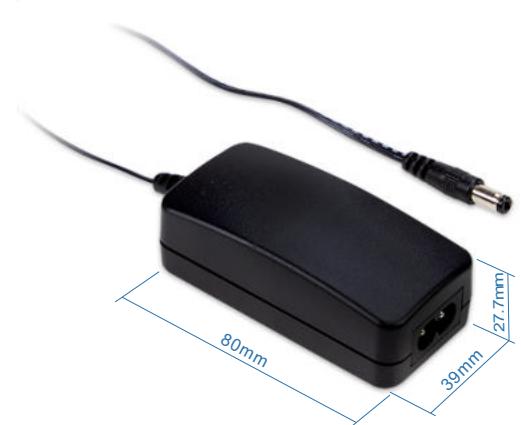
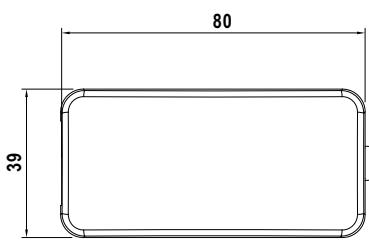
ORDER NO.	SGAS15B05-P1J	SGAS15B09-P1J	SGAS15B12-P1J	SGAS15B15-P1J	SGAS15B24-P1J									
OUTPUT	SAFETY MODEL NO.	SGAS15B05	SGAS15B09	SGAS15B12	SGAS15B15									
	DC VOLTAGE Note.2	5V	9V	12V	15V									
	RATED CURRENT	2.40A	1.66A	1.25A	1.00A									
	CURRENT RANGE	0 ~ 2.40A	0 ~ 1.66A	0 ~ 1.25A	0 ~ 1.00A									
	RATED POWER	12W	15W	15W	15W									
	RIPPLE & NOISE (max.) Note.3	80mVp-p	80mVp-p	80mVp-p	100mVp-p									
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±3.0%	±3.0%									
	LINE REGULATION Note.5	±0.5%	±0.5%	±0.5%	±0.5%									
INPUT	LOAD REGULATION Note.6	±5.0%	±5.0%	±3.0%	±3.0%									
	SETUP, RISE, HOLD UP TIME	3000ms, 50ms, 10ms at full load												
PROTECTION	VOLTAGE RANGE	90 ~ 264VAC 135 ~ 370VDC												
	FREQUENCY RANGE	47 ~ 63Hz												
	EFFICIENCY (Typ.)	79%	84%	85%	85%									
	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												
	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												
SAFETY & EMC (Note. 7)	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 40°C)												
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes												
	SAFETY STANDARDS	UL62368-1, CSA C22.2 NO. 62368-1, TUV BS EN/EN62368-1 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	BS EN/EN55032(CISPR32)FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B)	Class B										
		Radiated emission	BS EN/EN55032(CISPR32)FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B)	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										
OTHERS	PACKING	Voltage dips , interruption	BS EN/EN61000-4-11	>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods										
		LIFE	3 years : 100% load 40°C, 12hours / day											
		MTBF	507Khrs min. MIL-HDBK-217F(25°C)											
		DIMENSION	80*39*27.7mm (L*W*H)											
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°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-confirmed 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



UL2468 20AWG 1200 +150/-0mm for 5~12V
 UL2468 24AWG 1200 +150/-0mm for 15V
 UL2468 24AWG 1800 +150/-0mm for 24V


AC INLET
IEC320-C8


■ DC output plug

- ◎ Standard plug: P1J

Unit:mm

P1J	Pin Assignment
5.5 2.1 	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)

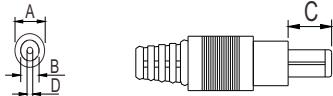
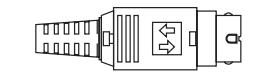
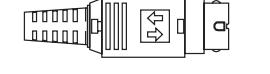
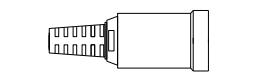
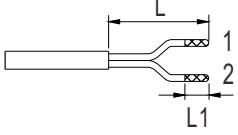
Please refer to below table and online selection guide : https://www.meanwell.com/upload/pdf/DC_plug.pdf

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
	Type No.	OD	ID	L	
	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	
	Type No.	A	B	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	
	Type No.	A	B	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				
		3	+Vo				
Min. DIN 4 Pin with Lock (male)		Pin Assignment				Available (Current rating: 7.5A max.)	
	R7B	PIN No.	Output				
		1	+Vo				
		2	-Vo				
		3	-Vo				
Min. DIN 4 Pin with Lock (female)	R7BF	Pin Assignment				None	
		PIN No.	Output				
		1	+Vo				
		2	-Vo				
		3	-Vo				
Stripped and tinned leads	by customer	Pin Assignment				None	
		PIN No.	Output				
		1 (White)	+Vo				
		2 (Black)	-Vo				
Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)							

■ Installation Manual

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