







- Ultra slim
- · Universal AC input / Full range
- · 2 pole EURO plug
- No load power consumption <0.075W</li>
- Energy efficiency Level VI
- Comply with EU ErP and meet CoC version 5
- Class II power (without earth pin)
- · Protections: Short circuit / Overload / Over voltage
- · Fully enclosed plastic case
- Pass LPS
- 3 years warranty

#### Description

SGA12E is a 12W ultra slim wall-mounted style single-output green adaptor series, which is compact and convenient for carry. SGA12E is a class  ${
m II}$  power unit (without FG) equipped with the standard 2-Pole 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 88% and the extremely low no-load power consumption below 0.075W, SGA12E is compliant with EU ErP and 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 SGA 12 E 05 - P1J



P1J: Plug for standard model,  $2.1 \psi \times 5.5 \psi \times 11$  mm, C+ tuning fork type USB: USB (type A) for 5V standard model only Optional plug type available per request

European 2 pin AC plug Output wattage Series name

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## Applications

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



#### SPECIFICATION

ORDER NO.		SGA12E05-	SGA12E07-P1J	SGA12E09-P1J	SGA12E12-P1J	SGA12E15-P1J	SGA12E18-P1J	SGA12E24-P1J	SGA12E48-P1J
	SAFETY MODEL NO.	SGA12E05	SGA12E07	SGA12E09	SGA12E12	SGA12E15	SGA12E18	SGA12E24	SGA12E48
OUTPUT	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V
	RATED CURRENT	2.4A	1.6A	1.33A	1A	0.8A	0.666A	0.5A	0.25A
	CURRENT RANGE	0~2.4A	0~1.6A	0~1.33A	0~1A	0~0.8A	0~0.666A	0~0.5A	0~0.25A
	RATED POWER (max.)	12W	12W	12W	12W	12W	12W	12W	12W
	RIPPLE & NOISE (max.) Note.3	50mVp-p	50mVp-p	80mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	100mVp-p
	VOLTAGE TOLERANCE Note.4		±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION Note.6	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%
	SETUP, RISE, HOLD UP TIME	1300ms, 50ms,	12ms/230VAC	1300ms, 50	ms, 12ms/115VA	C at full load		1	1
INPUT	VOLTAGE RANGE Note.7	90~264VAC							
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	80%	83%	83%	83%	84.5%	85%	85%	86%
	AC CURRENT	0.5A / 115VAC 0.25A / 230VAC							
	INRUSH CURRENT (max.)	30A / 115VAC 60A / 230VAC							
	LEAKAGE CURRENT(max.)	0.25mA / 240VAC							
PROTECTION	OVERLOAD	110 ~ 200% rated output power 150 ~ 250% rated output power							
		Protection type : Hiccup mode, recovers automatically after fault condition is removed							
		110 ~ 140% rated output voltage							
	OVER VOLTAGE	Protection type : Clamp by zener diode, output short							
ENVIRONMENT	WORKING TEMP.	-20 ~ +60 $^{\circ}$ C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH							
	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 EN60950-1 approved							
	WITHSTAND VOLTAGE	I/P-O/P:4242VDC							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH							
	EMC EMISSION	Compliance to EN55022 class B, EN61000-3-2,3							
	EMC IMMUNITY	Compliance to EN61000-4,-2,3,4,5,6,8,11, light industry level, criteria A							
OTHERS	LIFE	3 years : 100% load 40°C, 8hours / day							
	MTBF	265Khrs min. MIL-HDBK-217F(25°C)							
	DIMENSION	62.2*27.4*39.5mm (L*W*H)							
	PACKING	100g; 90pcs / 10kg / CARTON for cable connection ; 59.5g; 90pcs / 8kg / CARTON for USB connection							
CONNECTOR	PLUG	See page 3 ; Other type available by customer requested							
	CABLE	See page 3; Other type available by customer requested							
NOTE	2.DC voltage: The output volt 3.Ripple & noise are measure 4.Tolerance: includes set up 5.Line regulation is measure 6.Load regulation is measure 7.Derating may be needed uu 8.The power supply is consid	d at 230VAC input, rated load, 25°C 70% RH ambient. tage set at point measure by plug terminal & 50% load. red at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor. tolerance, line regulation, load regulation. d from low line to high line at rated load. ad from 10% to 100% rated load inder low input voltages. Please check the static characteristics for more details. Jered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the nce on how to perform these EMC tests, please refer to "EMI testing of component power supplies."							



## SGA12E series

