



■ Features

- Ultra slim
- Universal AC input / Full range
- 2 pole EURO plug, Class II power unit
- No load power consumption <0.075W
- **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
- 3 years warranty

■ Applications

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

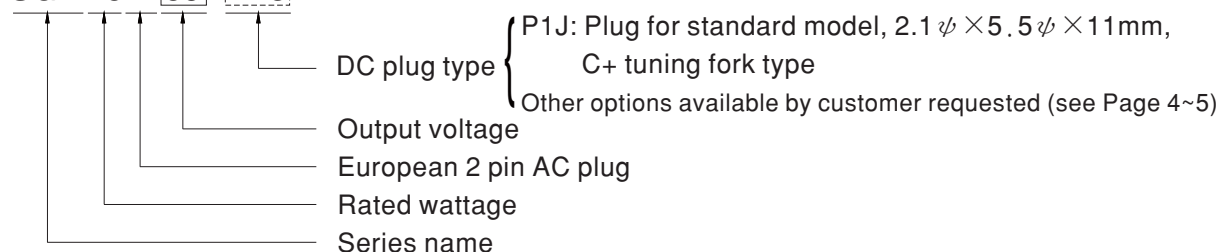
■ Description

SGA18E is a 18W ultra slim wall-mounted style single-output green adaptor series, which is compact and convenient for carry. SGA18E 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 87.5% and the extremely low no-load power consumption below 0.075W, SGA18E 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 18 E 05 -P1J

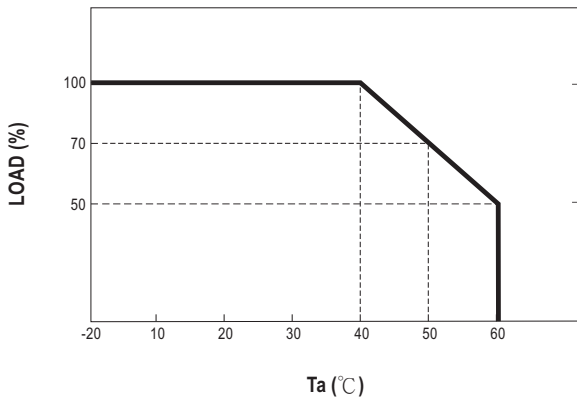




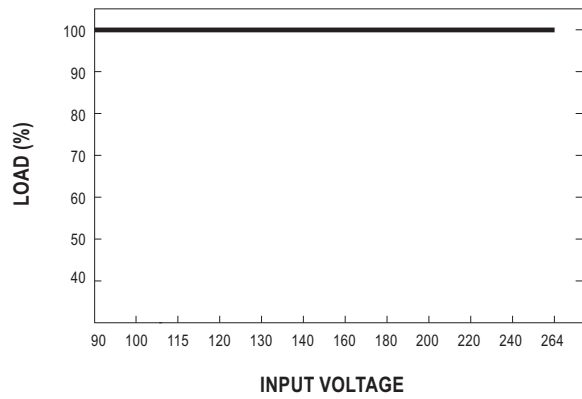
SPECIFICATION

ORDER NO.	SGA18E05-P1J	SGA18E09-P1J	SGA18E12-P1J	SGA18E15-P1J	SGA18E18-P1J	SGA18E24-P1J	SGA18E48-P1J	
OUTPUT	SAFETY MODEL NO.	SGA18E05	SGA18E09	SGA18E12	SGA18E15	SGA18E18	SGA18E24	SGA18E48
	DC VOLTAGE Note.2	5V	9V	12V	15V	18V	24V	48V
	RATED CURRENT	3A	2A	1.5A	1.2A	1A	0.75A	0.375A
	CURRENT RANGE	0 ~ 3A	0 ~ 2A	0 ~ 1.5A	0 ~ 1.2A	0 ~ 1A	0 ~ 0.75A	0 ~ 0.375A
	RATED POWER (max.)	15W	18W	18W	18W	18W	18W	18.2W
	RIPPLE & NOISE (max.) Note.3	80mVp-p	80mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	120mVp-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%
	LOAD REGULATION Note.6	± 5.0%	± 5.0%	± 3.0%	± 3.0%	± 3.0%	± 2.0%	± 2.0%
SETUP, RISE, HOLD UP TIME	300ms, 30ms, 16ms/230VAC 300ms, 30ms, 16ms/115VAC at full load							
INPUT	VOLTAGE RANGE	90 ~ 264VAC						
	FREQUENCY RANGE	47 ~ 63Hz						
	EFFICIENCY (Typ.)	81.5%	85.5%	85.5%	85.5%	86%	86.5%	87.5%
	AC CURRENT	0.45A / 115VAC		0.2A / 230VAC				
	INRUSH CURRENT (max.)	Cold start 30A / 115VAC		45A / 230VAC				
	LEAKAGE CURRENT(max.)	0.25mA / 240VAC						
PROTECTION	OVERLOAD	120 ~ 180% 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						
	WORKING TEMP.	-20 ~ +60°C (Refer to "Derating Curve")						
ENVIRONMENT	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 STANDARDS	TUV EN60950-1, EAC TP TC 004 approved						
WITHSTAND VOLTAGE	I/P-O/P:4242VDC							
ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
SAFETY & EMC (Note. 7)	EMC EMISSION	Parameter	Standard				Test Level / Note	
		Conducted emission	EN55032(CISPR32)				Class B	
		Radiated emission	EN55032(CISPR32)				Class B	
		Harmonic current	EN61000-3-2				Class A	
		Voltage flicker	EN61000-3-3				-----	
	EMC IMMUNITY	Parameter	Standard				Test Level / Note	
		ESD	EN61000-4-2				Level 3, 8KV air; Level 2, 4KV contact	
		RF field susceptibility	EN61000-4-3				Level 2, 3V/m	
		EFT bursts	EN61000-4-4				Level 2, 1KV	
		Surge susceptibility	EN61000-4-5				Level 3, 1KV/L-N	
		Conducted susceptibility	EN61000-4-6				Level 2, 3V	
		Magnetic field immunity	EN61000-4-8				Level 1, 1A/m	
		Voltage dips , interruption	EN61000-4-11				>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods	
	OTHERS	LIFE	3 years : 100% load 40°C, 8hours / day					
MTBF		450Khrs min. MIL-HDBK-217F(25°C)						
DIMENSION		75.5*32*47.5mm (L*W*H)						
PACKING		150g ; 60pcs / 10kg / 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	<p>1.All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.</p> <p>2.DC voltage: The output voltage set at point measure by plug terminal & 50% load.</p> <p>3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor.</p> <p>4.Tolerance: includes set up tolerance, line regulation, load regulation.</p> <p>5.Line regulation is measured from low line to high line at rated load.</p> <p>6.Load regulation is measured from 10% to 100% rated load.</p> <p>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 http://www.meanwell.com)</p>							

Derating Curve

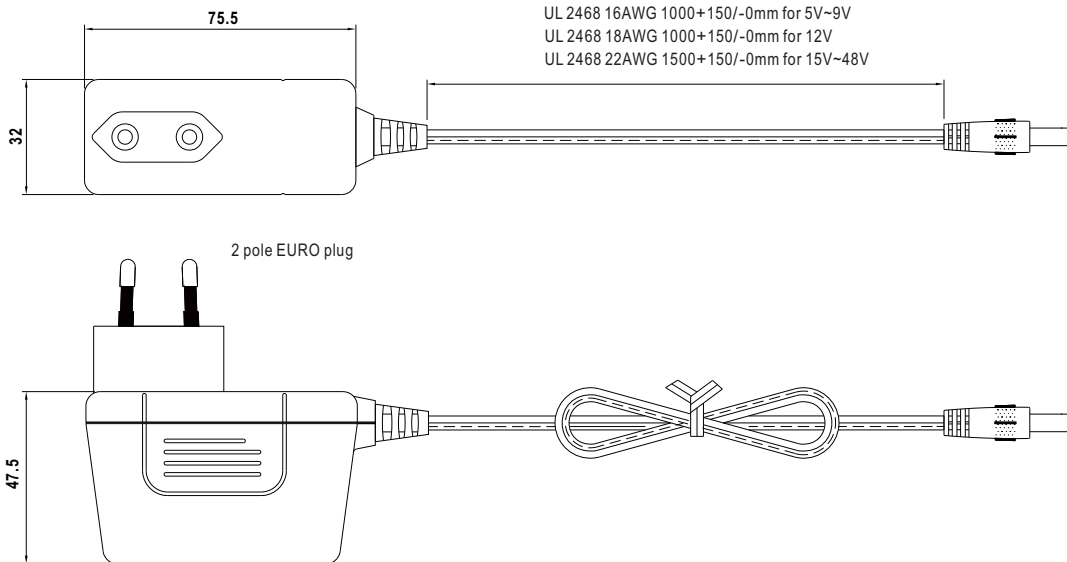


Static Characteristics



Mechanical Specification

Unit:mm





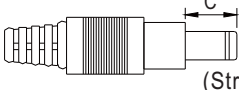
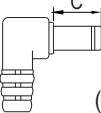


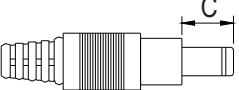
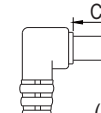


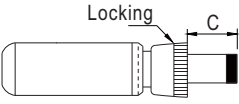


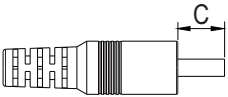

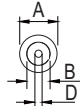
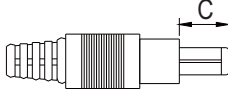

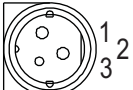
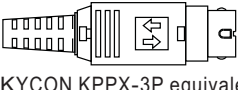
DC output plug


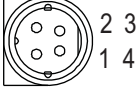
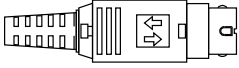


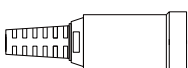
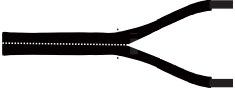
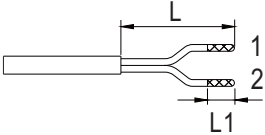
Standard plug: P1J

Unit:mm

P1J	Pin Assignment
	Outside Inside

◎ Optional DC plug:

Tuning Fork Style		Type No.	A	B	C	
			OD	ID	L	
 	 <p>(Straight)</p>	P1I	5.5	2.1	9.5	
		P1L	5.5	2.5	9.5	
		P1M	5.5	2.5	11.0	
	 <p>(Right-angled)</p>	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	B	C	
			OD	ID	L	
 	 <p>(Straight)</p>	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	
	 <p>(Right-angled)</p>	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	B	C	
			OD	ID	L	
   <p>Locking SWITCHCRAFT original or equivalent</p>	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	B	C	
			OD	ID	L	
   <p>EIAJ equivalent</p>	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
			OD	ID	L	Center Pin
   <p>EIAJ equivalent</p>	P4A	5.5	3.4	11.0	1.0	
	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		
   <p>KYCON KPPX-3P equivalent</p>	R6B	1	+Vo			
			2	-Vo		
			3	+Vo		

Min. DIN 4 Pin with Lock (male)	Type No.	Pin Assignment	
		PIN No.	Output
   <p>KYCON KPPX-4P equivalent</p>	R7B	1	+Vo
		2	-Vo
		3	-Vo
		4	+Vo
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment	
		PIN No.	Output
   <p>KYCON KPJX-CM-4S equivalent</p>	R7BF	1	+Vo
		2	-Vo
		3	-Vo
		4	+Vo
Stripped and tinned leads	Type No.	Pin Assignment	
		PIN No.	Output
  <p>Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)</p>	by customer	1 (Ribbed)	+Vo
		2 (Letter)	-Vo

■ Installation Manual

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