























#### Features

- · Ultra slim
- Universal AC input / Full range
- · 2 pole EURO plug, Class II power unit
- No load power consumption < 0.075W for 5~7.5V</li> <0.15W for 9 ~48V
- Energy efficiency Level VI (except 5V for Level VI)
- Comply with EU ErP and 9~48V meet CoC version 5
- · Protections: Short circuit / Overload / Over voltage
- · Fully enclosed plastic case
- · Pass LPS
- LED indicator for power on
- · 3 years warranty

## Applications

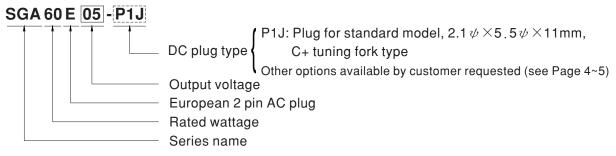
- Consumer electronic devices
- Telecommunication devices
- · Office facilities
- · Industrial equipments

### Description

SGA60E is a 60W ultra slim wall-mounted style single-output green adaptor series, which is compact and convenient for carry. <code>SGA60E</code> is a class  ${
m II}$  <code>powerunit</code> (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 91% and the extremely low no-load power consumption below 0.075W for 5~7.5V, below 0.15W for 9 ~48V, SGA60E is compliant with EU ErP and 9~48V 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

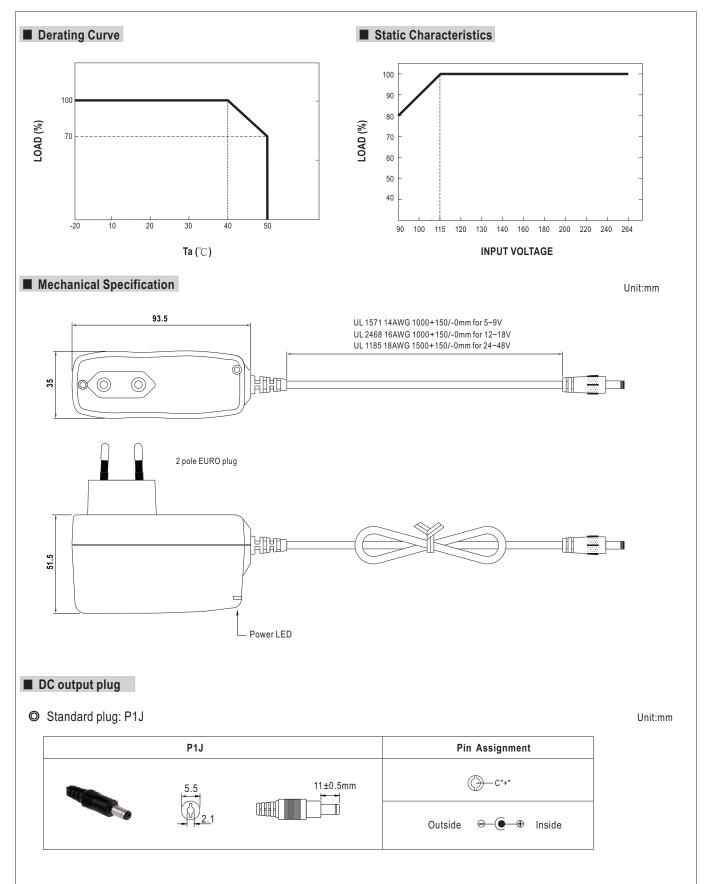




#### **SPECIFICATION**

ORDER NO.		SGA60E05-P1J	SGA60E07-P1J	SGA60E09-P1J	SGA60E12-P1J	SGA60E15-P1J	SGA60E18-P1J	SGA60E24-P1J	SGA60E48-P1J		
	SAFETY MODEL NO.	SGA60E05	SGA60E07	SGA60E09	SGA60E12	SGA60E15	SGA60E18	SGA60E24	SGA60E48		
OUTPUT	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V		
	RATED CURRENT		6A	5.5A	5A	4A	3.33A	2.5A	1.25A		
	CURRENT RANGE	0 ~ 6A	0 ~ 6A	0 ~ 5.5A	0 ~ 5A	0 ~ 4A	0 ~ 3.33A	0 ~ 2.5A	0 ~ 1.25A		
	RATED POWER (max.)		45W	49.5W	60W	60W	60W	60W	60W		
	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%	±2.0%	±2.0%	±2.0%		
		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
		±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%		
	SETUP, RISE, HOLD UP TIME						±2.070	_ ±2.0 /0	±2.0 /0		
		500ms, 50ms, 12ms/230VAC 500ms, 50ms, 12ms/115VAC at full load 90 ~ 264VAC									
INPUT	FREQUENCY RANGE	47 ~ 63Hz									
	EFFICIENCY (Typ.)		86%	87%	88%	87%	88%	88%	91%		
	AC CURRENT	1.5A / 115VAC	0.75A / 230\		00 /6	01 /6	00 /0	00 /6	31/0		
	INRUSH CURRENT (max.)										
	, ,	Cold start 40A / 115VAC 80A / 230VAC									
	LEAKAGE CURRENT(max.)	0.25mA / 240VAC 110 ~ 200% rated output power									
	OVERLOAD				otically of f	ult oon ditie ! -	maya d				
PROTECTION		Protection type: Hiccup mode, recovers automatically after fault condition is removed									
	OVER VOLTAGE	110 ~ 140% rated output voltage									
	WORKING TEMP	Protection type: Clamp by zener diode, output short									
ENVIRONMENT	WORKING TEMP. WORKING HUMIDITY	-20 ~ +50°C (Refer to "Derating Curve")  20% ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY										
	TEMP. COEFFICIENT	-20 ~ +85°C, 10 ~ 95% RH non-condensing ±0.03% / °C (0 ~ 40°C)									
	VIBRATION	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \									
	SAFETY STANDARDS	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
	WITHSTAND VOLTAGE	TUV EN60950-1, EAC TP TC 004 approved									
	ISOLATION RESISTANCE	I/P-O/P:4242VDC I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH									
	IOOLATION REGIOTANCE		7111137 300 V D G 7				Test Level / Not	•			
	EMC EMISSION	Parameter	-1	Standard	IODDOO)			le .			
			conducted emission EN55032(CISPR32)			Class B					
SAFETY &		Radiated emissi	ion	EN55032(CISPR32)			Class B				
		Harmonic currer	nt	EN61000-3-2			Class A				
EMC		Voltage flicker		EN61000-3-3							
(Note. 8)	EMC IMMUNITY	Parameter		Standard	Standard			Test Level /Note			
		ESD		FN61000-4-	EN61000-4-2		Level 3, 8KV air; Level 2, 4KV contact				
		RF field suscept	tibility	EN61000-4-			Level 2, 3V/m				
		EFT bursts			EN61000-4-4		Level 2, 1KV				
			ility								
		Surge susceptib			EN61000-4-5 Level 3, 1KV/L-N			L-IN			
		Conducted susc			EN61000-4-6			Level 2, 3V			
		Magnetic field in	nmunity	EN61000-4-	EN61000-4-8 Level 1, 1A/m						
		Voltage dips , interruption EN61000-4-11 >95% dip 0. 5 periods, 30% dip 25   >95% interruptions 250 periods									
	LIFE	3 years : 100% load 40°C, 12hours / day									
OTHERS	MTBF	400Khrs min. MIL-HDBK-217F(25°C)									
OTHERS	DIMENSION	93.5*35*51.5mr	n (L*W*H)								
	PACKING	250g; 60pcs / 17kg / CARTON									
CONNECTOR	PLUG	See page 4~5; Other type available by customer requested									
COMMEDIUM	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 10% to 100% rated load.  7.Derating may be needed under low input voltages. Please check the static characteristics 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)										
	(as available on http://www.	ca.ivcii.coiii)						File Name:SGA60E	SPEC 2010 11		







# Optional DC plug:

Tuning Forl	Type No.	А		В	С	
Tunning 1 on		OD		ID	L	
	C C	P1I	5.5		2.1	9.5
		P1L	5.5		2.5	9.5
1.A.	(Straight)	P1M	5.5	_	2.5	11.0
A B	C	P1IR	5.5		2.1	9.5
<u> </u>		P1JR	5.5	_	2.1	11.0
	(Right-angled)	P1LR	5.5		2.5	9.5
	(ixigiit-aligieu)	P1MR	P1MR 5.5		2.5	11.0
Barrel	Type No.	Α		В	С	
Barrer		OD		ID	L	
	, C ,	P2I	5.5		2.1	9.5
		P2J	5.5		2.1	11.0
Δ.		P2L	5.5		2.5	9.5
A B	(Straight)	P2M	5.5		2.5	11.0
₽ <sub>B</sub>	C C	P2IR	5.5		2.1	9.5
<del></del>		P2JR	5.5		2.1	11.0
		P2LR	5.5		2.5	9.5
	(Right-angled)	P2MR	5.5		2.5	11.0
		Type No	Α		В	С
Lock S	Type No.	OD		ID	L	
	Floating Locking C	P2S(S761K)	5.53	1	2.03	12.06
A	1 loading 200king	P2K(761K)	5.53	1	2.54	12.06
A B		P2C(S760K)	5.53		2.03	9.52
<del> </del>	SWITCHCRAFT original or equivalent	P2D(760K)	5.53		2.54	9.52
Min Din 6	N. J.	,	А		В	С
Min. Pin S	style	Type No.	OD		ID	L
,A,	C	P3A 2.35			0.7	11.0
A B		P3B	4.0		1.7	11.0
<b>→</b>	P3C	4.75		1.7	11.0	
Contar Di	n Stylo	Type No	Α	В	С	D
Center Pi	Type No.	OD	ID	L	Center Pin	
A	<del>  C</del>	P4A	5.5	3.4	11.0	1.0
		P4B	6.5	4.4	11.0	1.4
	EIAJ equivalent	P4C	7.4	5.1	11.0	0.6
Min. DIN 3 Pin with	Type No.	Pin Assignment				
Willi. Dilk o'r ill Will	турстчо.	PIN No	No. Output		ut	
			1		+Vc	)
$\begin{pmatrix} \circ \\ \circ \end{pmatrix}$ $\begin{pmatrix} 1 \\ 2 \end{pmatrix}$		R6B	2		-Vo	
3	KYCON KPPX-3P equivalent		3		+Vo	



Min DINI 4 Din with Look (water)	Type No.	Pin Assignment		
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No.	Output	
lang.	R7B	1	+Vo	
		2	-Vo	
1 4		3	-Vo	
KYCON KPPX-4P equivalent		4	+Vo	
Min DIN 4 Din with Look (fomolo)	Type No.	Pin Assignment		
Min. DIN 4 Pin with Lock (female)	Type No.	PIN No.	Output	
	R7BF	1	+Vo	
		2	-Vo	
		3	-Vo	
KYCON KPJX-CM-4S equivalent		4	+Vo	
Ctuin and and time add and	T N	Pin Assignment		
Stripped and tinned leads	Type No.	PIN No.	Output	
1 2	by customer	1 (Ribbed or White)	+Vo	
L1  Length of Land L1 by request  (MW's standard length, L: 25 mm, L1: 10 mm)	by oustomer	2 (Letter or Black)	-Vo	

#### **■** Installation Manual

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