



**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

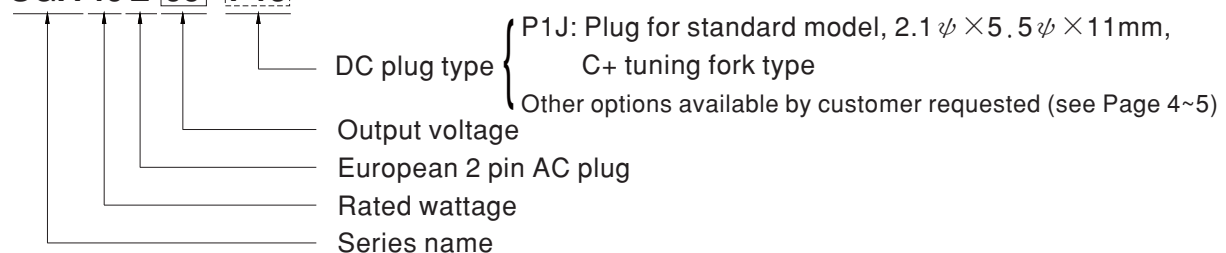
**Description**

SGA40E is a 40W ultra slim wall-mounted style single-output green adaptor series, which is compact and convenient for carry. SGA40E 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 89% and the extremely low no-load power consumption below 0.075W, SGA40E 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 40 E 05 -P1J**

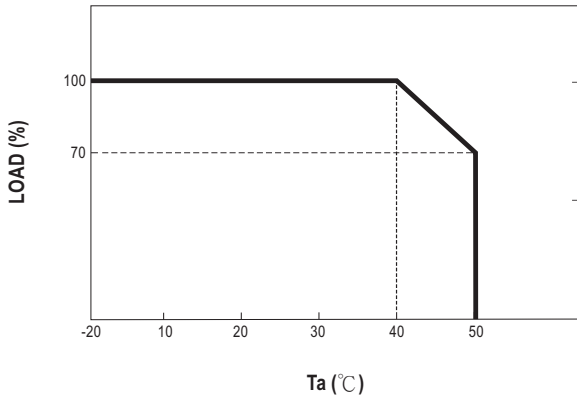




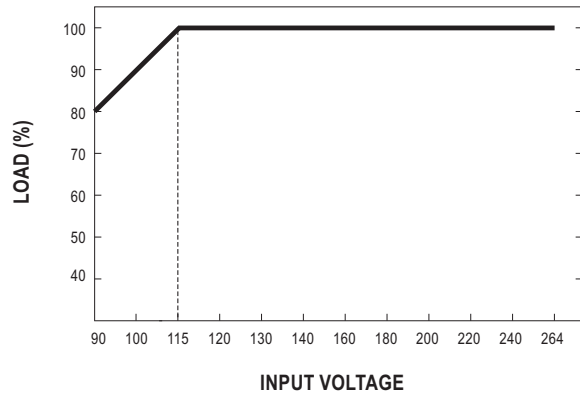
**SPECIFICATION**

ORDER NO.	SGA40E05-P1J	SGA40E09-P1J	SGA40E12-P1J	SGA40E15-P1J	SGA40E18-P1J	SGA40E24-P1J	SGA40E48-P1J		
OUTPUT	SAFETY MODEL NO.	SGA40E05	SGA40E09	SGA40E12	SGA40E15	SGA40E18	SGA40E24	SGA40E48	
	DC VOLTAGE <span style="float:right">Note.2</span>	5V	9V	12V	15V	18V	24V	48V	
	RATED CURRENT	5A	4.44A	3.33A	2.66A	2.22A	1.67A	0.84A	
	CURRENT RANGE	0 ~ 5A	0 ~ 4.44A	0 ~ 3.33A	0 ~ 2.66A	0 ~ 2.22A	0 ~ 1.67A	0 ~ 0.84A	
	RATED POWER (max.)	25W	40W	40W	40W	40W	40W	40W	
	RIPPLE & NOISE (max.) <span style="float:right">Note.3</span>	120mVp-p	120mVp-p	120mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	
	VOLTAGE TOLERANCE <span style="float:right">Note.4</span>	± 5.0%	± 5.0%	± 3.0%	± 2.0%	± 2.0%	± 2.0%	± 2.0%	
	LINE REGULATION <span style="float:right">Note.5</span>	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	
	LOAD REGULATION <span style="float:right">Note.6</span>	± 5.0%	± 5.0%	± 3.0%	± 2.0%	± 2.0%	± 2.0%	± 2.0%	
SETUP, RISE, HOLD UP TIME	500ms, 100ms, 12ms/230VAC      500ms, 100ms, 12ms/115VAC at full load								
INPUT	VOLTAGE RANGE <span style="float:right">Note.7</span>	90 ~ 264VAC							
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	84.5%	88%	86.5%	86.5%	87%	88%	89%	
	AC CURRENT	1A / 115VAC      0.5A / 230VAC							
	INRUSH CURRENT (max.)	Cold start 40A / 115VAC      70A / 230VAC							
	LEAKAGE CURRENT(max.)	0.25mA / 240VAC							
PROTECTION	OVERLOAD	110 ~ 250% 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 ~ +50°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 & 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	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, 12hours / day							
	MTBF	400Khrs min. MIL-HDBK-217F(25°C)							
	DIMENSION	75.5*32*47.5mm (L*W*H)							
	PACKING	165g ; 60pcs / 13kg / 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 &amp; 50% load.</p> <p>3.Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf &amp; 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.Derating may be needed under low input voltages. Please check the static characteristics for more details.</p> <p>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 <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</p>								

### Derating Curve

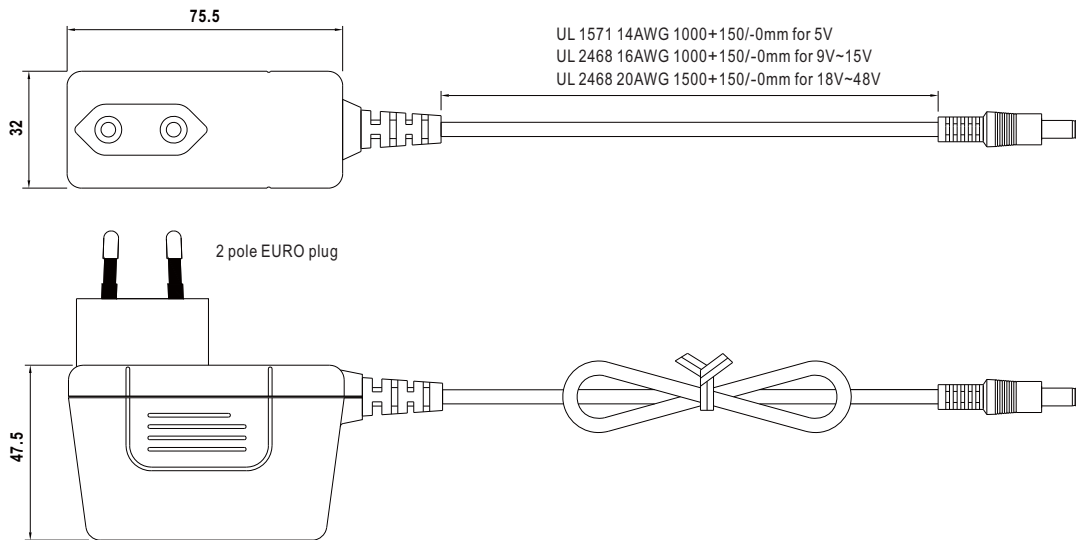


### Static Characteristics



### Mechanical Specification

Unit:mm





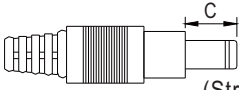
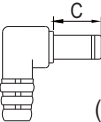

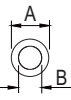
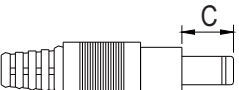
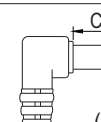


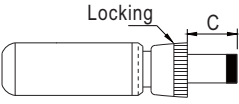


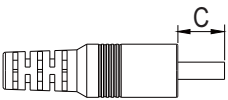

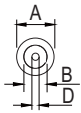
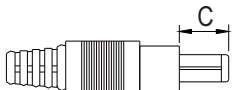

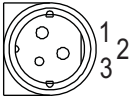
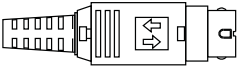
### DC output plug

Standard plug: P1J

Unit:mm

P1J	Pin Assignment

◎ Optional DC plug:

Tuning Fork Style		Type No.	A OD	B ID	C L	
   (Straight)	 (Right-angled)	P1I	5.5	2.1	9.5	
		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 OD	B ID	C L	
   (Straight)	 (Right-angled)	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 OD	B ID	C L	
   Locking SWITCHCRAFT original or equivalent	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 OD	B ID	C L	
   EIAJ equivalent	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 OD	B ID	C L	D Center Pin
   EIAJ equivalent	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			
   KYCON KPPX-3P equivalent	R6B	PIN No.	Output			
	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>