





















Features

- · Ultra slim, compact size
- · Medical safety approved (2 x MOPP) according to EN60601-1/EN60601-1-11
- · Extremely Low leakage current
- · 2 pole EURO plug, Class II power unit
- No load power consumption <0.15W
- Energy efficiency Level VI (except 5~9V for Level V)
- · -30~+70°C wide range working temperature
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- · Various DC plug quick adapter accessory available (Plug kit sold sperately, please refer to: https://www.meanwell.com/upload/pdf/DC_plug.pdf)
- · 3 years warranty

Applications

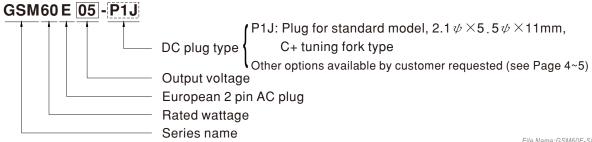
- · Blood glucose meter
- · Blood pressure meter
- · Nebulizer
- Inhaler
- · Portable medical device
- Sleep apnea devices

Description

GSM60E is a 60W ultra slim wall-mounted style single-output green medical adaptor series, which is compact and convenient for carry. GSM60E is a class II power unit (no FG) equipped with the standard 2-Pin European plug, accepting the input range from 80VAC 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 medical electronic devices. The circuitry design meets the international medical standards (2*MOPP), having an ultra low leakage current (<100µA), fitting the medical devices in direct electrical contact with the patients.

With the efficiency up to 90% and the extremely low no-load power consumption below 0.15W, GSM60E is compliant with EU ErP and meet CoC version 5 (5~9V for Level V). 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





60W AC-DC Reliable Green Slim Wall-mounted Medical Adaptor GSM60E series

SPECIFICATION

	GSM60E05-P1J	GSM60E07-P1J	GSM60E09-P1J	GSM60E12-P1J	GSM60E15-P1J	GSM60E18-P1J	GSM60E24-P1J	GSM60E48-P1		
SAFETY MODEL NO.	GSM60E05	GSM60E07	GSM60E09	GSM60E12	GSM60E15	GSM60E18	GSM60E24	GSM60E48		
DC VOLTAGE Note 2								48V		
								1.25A		
								0 ~ 1.25A		
								60W		
, ,										
` ,								150mVp-p		
								±3.0%		
								±1.0%		
						±2.0%	±2.0%	±2.0%		
· · · · · · · · · · · · · · · · · · ·										
FREQUENCY RANGE										
EFFICIENCY (Typ.)	80%	85%	87%	88%	88%	88%	88%	90%		
AC CURRENT	1.5A / 115VAC	0.8A / 230V	AC							
INRUSH CURRENT (max.)	Cold start 50A / 115VAC 100A / 230VAC									
LEAKAGE CURRENT(max.)	Touch current <	100µA/264VAC								
OVEDI OAD	105 ~ 160% rat	ed output power								
OVERLOAD										
OVER VOLTAGE				short						
WORKING TEMP.	,, , , , , , , , , , , , , , , , , , , ,									
WORKING HUMIDITY	20% ~ 90% RH non-condensing									
STORAGE TEMP., HUMIDITY	-30 ~ +85°C, 10	~ 95% RH non-	condensing							
TEMP. COEFFICIENT	· ·									
VIBRATION										
SAFETY STANDARDS										
			25°C/ 70% RH							
IOOL/(IIOI((LOIO)/(IIOL	Parameter Standard Test Level / Note									
EMC EMISSION										
		,								
				,		1				
		7111								
EMC IMMUNITY										
	ESD		ENC							
	RF field susceptibility		EN6	FN61000-4-3		, ,				
	EET hurete		ENG							
		L 1114								
						· · · · · · · · · · · · · · · · · · ·				
	Magnetic field	mmunity	EN6	1000-4-8		,				
	Voltage dip, int	erruption	EN6	1000-4-11		5% dip 0.5 periods, 30% dip 25 periods, 5% interruptions 250 periods				
LIFE	3 years: 100% load 40°C, 8hours / day									
MTBF	400Khrs min. N	IIL-HDBK-217F(25°℃)							
DIMENSION	75.5*32*47.5mi	n (L*W*H)								
PACKING	200g; 60pcs / 13kg / CARTON									
PLUG	See page 4~5; other type available by customer requested									
CABLE										
2.DC voltage: The output volt 3.Ripple & noise are measure 4.Tolerance: includes set up t 5.Line regulation is measured 6.Load regulation is measured 7.Derating may be needed ur 8.The power supply is consid EMC directives. For guidan	d at 230VAC input, rated load, 25°C 70% RH ambient. tage set at point measure by plug terminal & 50% load. ed at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor. tolerance, line regulation, load regulation. If from low line to high line at rated load. If from 10% to 100% rated load. Inder low input voltage. Please check the derating curve for more details. Itered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the									
	SAFETY MODEL NO. DC VOLTAGE Note.2 RATED CURRENT CURRENT RANGE RATED POWER (max.) RIPPLE & NOISE (max.) Note.3 VOLTAGE TOLERANCE Note.4 LINE REGULATION Note.5 LOAD REGULATION Note.6 SETUP, RISE, HOLD UP TIME VOLTAGE RANGE Note.7 FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT INRUSH CURRENT (max.) LEAKAGE CURRENT(max.) OVERLOAD OVER VOLTAGE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC EMISSION EMC EMISSION EMC IMMUNITY EMP. COEFFICIENT VIBRATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY EMC IMM	SAFETY MODEL NO. GSM60E05	SAFETY MODEL NO. GSM60E05 GSM60E07	SAFETY MODEL NO. DC VOLTAGE Note.2 5V 7.5V 9V	SAFETY MODEL NO. GSM60E05 GSM60E07 GSM60E09 GSM60E12 DC VOLTAGE Note 2 5V 7.5V 9V 12V RATED CURRENT SAME 0 - 6A 6A 5.5A 4.5A CURRENT RANGE 0 - 6A 0 - 6A 0 - 5.5A 0 - 4.5A RATED POWER (max.) 30W 45W 50W 54W RIPPLE & NOISE (max.) Note 3 100mVp-p 100mVp-p 100mVp-p 100mVp-p CUTAGE TOLERANCE Metal 45.0% 45.0% 45.0% 45.0% 45.0% 45.0% LINE REGULATION Note 5 45.0% 45.	SARETY MODEL NO. SAM60E05 SAM60E07 SAM60E09 SAM60E12 SAM60E15 DC VOLTAGE Note: 2	SAFETY MODEL NO. CSM00E05 CSM00E07 CSM00E12 CSM00E15 CSM00E18	SAFETY MODEL NO. OSM60E05 OSM60E07 OSM60E07 OSM60E12 OSM60E15 OSM60E16 OSM60E16 OV OLTAGE No. 2 OV		

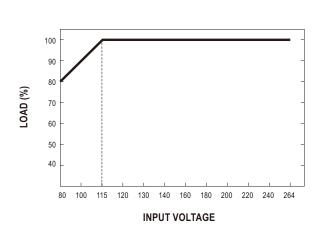


■ Derating Curve

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70 70 50 -30 10 20 30 40 50 70

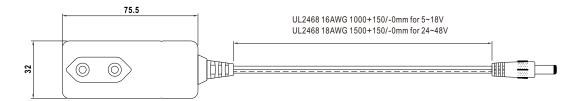
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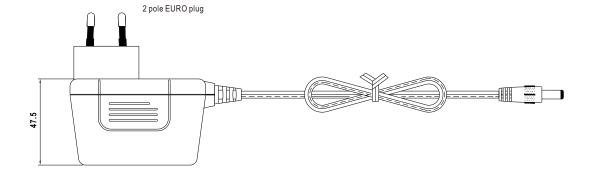


■ Static Characteristics

■ Mechanical Specification

Unit:mm







60W AC-DC Reliable Green Slim Wall-mounted Medical Adaptor GSM60E series

■ DC output plug

O Standard plug: P1J

Unit:mm

	P1J		Pin Assignment
	5.5	11±0.5mm	⊕ -C*+*
	2.1		Outside ⊖—⊕ Inside

- O 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 Fo	Type No	А	В	С	Quick Adapter		
Tuning Fo	Type No.	OD	ID	L	Accessory		
	- C	P1I	5.5	2.1	9.5		
		P1L	5.5	2.5	9.5		
I A	(Straight)	P1M	5.5	2.5	11.0	A !	
A B	C -	P1IR	5.5	2.1	9.5	Available	
→ T-□		P1JR	5.5	2.1	11.0	(Current rating: 7.5A max.)	
		P1LR	5.5	2.5	9.5		
	(Right-angled)	P1MR	5.5	2.5	11.0		
Barrel	Type No.	Α	В	С			
Darrer	турстчо.	OD	ID	L			
	, C ,	P2I	5.5	2.1	9.5		
		P2J	5.5	2.1	11.0		
A B	(Straight)	P2L	5.5	2.5	9.5	None	
		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		
	(Right-angled)	P2MR	5.5	2.5	11.0		
Lock S	Type No.	Α	В	С			
LOOK		OD	ID	L			
. A .	Floating Locking C-	P2S(S761K)	5.53	2.03	12.06	None	
D _B		P2K(761K)	5.53	2.54	12.06	TTOTIO	
<u> </u>		P2C(S760K)	5.53	2.03	9.52		
	SWITCHCRAFT original or equivalent	P2D(760K)	5.53	2.54	9.52		
Min. Pin Style		Type No.	Α	В	С		
IVIIII. I III (1 9 0 1 1 0 .	OD	ID	L			
, A,	C _	P3A	2.35	0.7	11.0	Available	
A B		P3B	4.0	1.7	11.0	(Current rating: 5A max.)	
	EIAJ equivalent	P3C	4.75	1.7	11.0		

Center Pin Style	Type No.	A OD	B ID	C L	D Center Pin	Quick Adapter Accessory	
A LC	P4A	5.5	3.4	11.0	1.0		
	P4B	6.5	4.4	11.0	1.4	Available (Current rating: 7.5A max.	
EIAJ equivalent	P4C	7.4	5.1	11.0	0.6	(Current running: 1:07 timax.)	
Min. DIN 3 Pin with Lock (male)	Type No.	Pin Assignment					
min. Birto i in with 200k (malo)	1) po 110.	PIN No).	Output		Available (Current rating: 7.5A max.)	
	R6B	1	+Vo				
		2		-Vo			
KYCON KPPX-3P equivalent		3		+Vo			
Min DIN 4 Din with Look (male)	Type No.	Pin Assignment					
Min. DIN 4 Pin with Lock (male)	турстчо.	PIN No. Output		t			
	R7B	1		+Vo		Available (Current rating: 7.5A max.)	
2 3 IIIII P		2		-Vo			
1 4 KYCON KPPX-4P equivalent		3		-Vo			
		4 +Vo					
Stripped and tinned leads	Type No.	Pin Assignment					
	1,70110.	PIN No).	Output		None	
1	by customer	1 (Ribbed	1)	+Vo			
L1 Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)	of outstand	2 (Letter	•)	-Vo			

■ Installation Manual

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