





















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
- · 3 years warranty

Applications

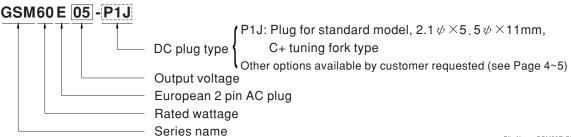
- · Blood glucose meter
- · Blood pressure meter
- Nebulizer
- Inhaler
- Portable medical device
- Sleep apnea devices

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 Π 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



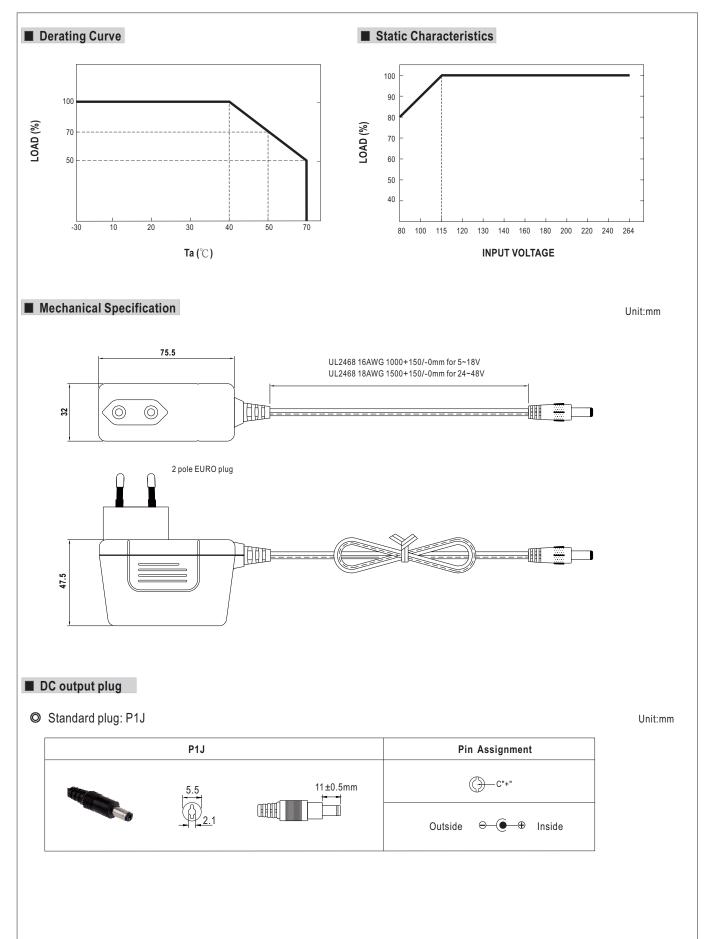
60W AC-DC Reliable Green Slim Wall-mounted Medical Adaptor GSM60E series

SPECIFICATION

SPECIFIC	ATION				1		T		I
ORDER NO.		GSM60E05-P1J	GSM60E07-P1J	GSM60E09-P1	J GSM60E12-P1J	GSM60E15-P1	GSM60E18-P1J	GSM60E24-P1J	GSM60E48-P1J
	SAFETY MODEL NO.	GSM60E05	GSM60E07	GSM60E09	GSM60E12	GSM60E15	GSM60E18	GSM60E24	GSM60E48
ОИТРИТ	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V
	RATED CURRENT	6A	6A	5.5A	4.5A	4A	3.33A	2.5A	1.25A
	CURRENT RANGE	0 ~ 6A	0 ~ 6A	0 ~ 5.5A	0 ~ 4.5A	0 ~ 4A	0 ~ 3.33A	0 ~ 2.5A	0 ~ 1.25A
	RATED POWER (max.)		45W	49.5W	54W	60W	60W	60W	60W
	RIPPLE & NOISE (max.) Note.3		100mVp-p	100mVp-p	100mVp-p	120mVp-p	120mVp-p	120mVp-p	150mVp-p
	. ,								
	VOLTAGE TOLERANCE Note.4		±5.0%	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%
		±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				s, 10ms/115VAC	at full load			
	VOLTAGE RANGE Note.7	80 ~ 264VAC 113 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
INDIIT	EFFICIENCY (Typ.)	80%	85%	87%	88%	88%	88%	88%	90%
INPUT	AC CURRENT	1.5A / 115VAC 0.8A / 230VAC							
	INRUSH CURRENT (max.)	Cold start 50A / 115VAC 100A / 230VAC							
	LEAKAGE CURRENT(max.)	Touch current < 100µA/264VAC							
		105 ~ 160% rat	ed output nower						
	OVERLOAD	105 ~ 160% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed							
PROTECTION		110 ~ 140% rated output voltage							
	OVER VOLTAGE	1 0							
	WORKING TEMP.	Protection type: Clamp by zener diode, output short -30 ~ +70°C (Refer to "Derating Curve")							
ENVIRONMENT	WORKING HUMIDITY	20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-30 ~ +85°C, 10 ~ 95% RH non-condensing							
LINVINONIMENT	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 EN60601-1/EN60601-1-11, EAC TP TC 004 approved							
	ISOLATION LEVEL	Pimary - Secondary: 2 x MOPP							
	WITHSTAND VOLTAGE	I/P-O/P:5656VDC							
	ISOLATION RESISTANCE	/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION	Parameter Standard Test Level / Note							
		Conducted emission EN55011 (CISPR11) Class B							
		Radiated emission EN55011 (CISPR11) Class B							
SAFETY &		Harmonic current			61000-3-2	Cla	Class A		
EMC		Voltage flicker EN61000-3-3							
(Note. 8)		EN55011, EN60601-1-2							
	EMC IMMUNITY	Parameter		St	andard	Te	st Level / Note		
		ESD		EN	61000-4-2	Le	Level 4, 15KV air ; Level 4, 8KV contact		
		DE field access	416.114.		64000 4 2	Le	Level 3, 10V/m(80MHz~2.7GHz)		
		RF field susceptibility EN61000-4-3 Table 9, 9~28V/m(385MHz:				B5MHz~6GHz)			
		EFT bursts		EN	61000-4-4	Lev	Level 3, 2KV Line-Line,1KV ineterconnect Lines at 1		
		Surge suscepti	bility	EN	61000-4-5	Le	Level 3, 2KV/Line-Line		
		Conducted sus	ceptibility	EN	61000-4-6	Le	Level 2, 3V		
		Magnetic field i	mmunity	EN	61000-4-8	Le	/el 4, 30A/m		
		Voltage dip, int	erruption	EN	61000-4-11	>95	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
	LIFE	3 years : 100% load 40°C, 8hours / day							
	MTBF	400Khrs min. MIL-HDBK-217F(25°C)							
OTHERS	DIMENSION	75.5*32*47.5mm (L*W*H)							
	PACKING	200g; 60pcs / 13kg / CARTON							
	PLUG	See page 4~5; other type available by customer requested							
CONNECTOR	CABLE				· · · · · · · · · · · · · · · · · · ·				
NOTE	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 guidance	See page 4~5; other type available by customer requested rameters are specified at 230VAC input, rated load, 25°C 70% RH ambient. oltage: The output voltage set at point measure by plug terminal & 50% load. e & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor. ance: includes set up tolerance, line regulation, load regulation. egulation is measured from low line to high line at rated load. regulation is measured from 10% to 100% rated load. ing may be needed under low input voltage. Please check the derating curve for more details. ower supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." // Aliable on http://www.meanwell.com)							
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60W AC-DC Reliable Green Slim Wall-mounted Medical Adaptor GSM60E series

Optional DC plug:

Tuning For	Type No.	А		В	С	
		OD		ID	L	
	C 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	C	P1IR	5.5		2.1	9.5
		P1JR	5.5		2.1	11.0
	(Right-angled)	P1LR	5.5		2.5	9.5
	(g aga)	P1MR			2.5	11.0
Barrel	Type No.	Α		В	С	
		OD		ID	L	
	C ₋	P2I	5.5	_	2.1	9.5
		P2J	5.5		2.1	11.0
A		P2L	5.5		2.5	9.5
A B	(Straight)	P2M	5.5	_	2.5	11.0
В	C	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
	A4 - I	Type No.	A		В	С
Lock S	style	турстчо.	OD		ID	L
Α	Locking C .	P2S(S761K)	5.53		2.03	12.06
		P2K(761K)	5.53		2.54	12.06
<u>B</u>		P2C(S760K)	5.53		2.03	9.52
SV	VITCHCRAFT original or equivalent	P2D(760K)	5.53		2.54	9.52
Min Din 9	Stylo	Type No.	Α		В	С
Min. Pin S	Style	Type No.	OD		ID	L
ı.A.	<u>C</u>	P3A	2.35		0.7	11.0
A B		P3B	4.0		1.7	11.0
EIAJ equivalent		P3C	4.75		1.7	11.0
Center Pi	Type No.	Α	В	С	D	
O GIILGI I I		OD	ID	L	Center Pin	
A	- <u>C</u>	P4A	5.5	3.4	11.0	1.0
		P4B	6.5	4.4	11.0	1.4
- T-D	EIAJ equivalent	P4C	7.4	5.1	11.0	0.6
Min DIN 3 Din with	Type No.	Pin Assignment				
Min. DIN 3 Pin with		PIN No. Output		ut		
		R6B	1		+Vo)
$\begin{pmatrix} \circ & \\ \circ & \circ \end{pmatrix} \begin{pmatrix} 1 \\ 2 \end{pmatrix}$			2		-Vo	
3	KYCON KPPX-3P equivalent		3		+Vo)

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Min DINI 4 Din with Look (mode)	Type No.	Pin Assignment		
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No.	Output	
		1	+Vo	
	R7B	2	-Vo	
1 4	IV D	3	-Vo	
KYCON KPPX-4P equivalent		4	+Vo	
Ctripped and tipped leads	Tuna Na	Pin Assignment		
Stripped and tinned leads	Type No.	PIN No.	Output	
1	by customer	1 (Ribbed)	+Vo	
L1 Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)	by oddiomer	2 (Letter)	-Vo	

■ Installation Manual

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

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