



■ Features

- 2 pole EURO plug, Class II power unit
- Medical safety approved (2 x MOPP) according to BS EN/EN60601-1
- Extremely low leakage current
- No load power consumption < 0.3W
- Energy efficiency Level V
- 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

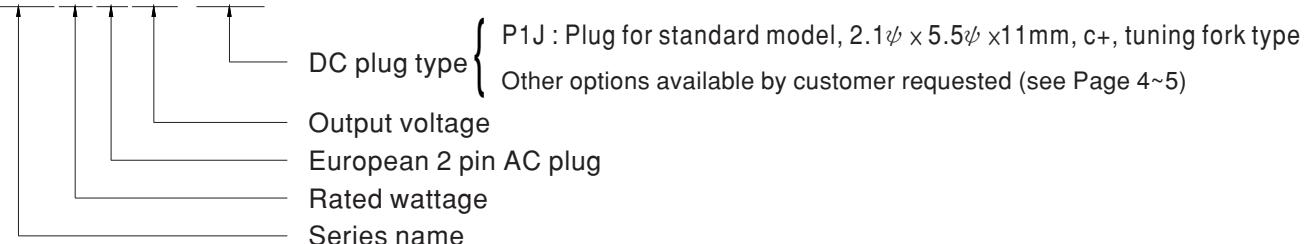
■ Description

GSM06E is a highly reliable, 6W wall-mounted style single-output green medical adaptor series. This product is equipped with a 2-pin (no FG) standard European power plug, adopting the input range from 85VAC to 264VAC. The entire series supplies different output voltages between 5VDC and 24VDC that can satisfy the demands for various kinds of miniature medical devices. The circuitry design meets the international medical standards (2 x MOPP), having an ultra low leakage current (<50µA), fitting the medical devices in direct electrical contact with the patients.

With the efficiency up to 82% and the extreme low no-load power consumption below 0.3W. GSM06E is compliant with EU ErP. The supreme feature allows the adaptor to save the energy when it is either under the operating mode or the standby mode. The entire series utilizes the 94V-0 flame retardant plastic case, providing the double insulation that effectively prevents electrical shock. GSM06E is approved with the international medical safety certificates.

■ Model Encoding

GSM06E [05]-P1J



SPECIFICATION

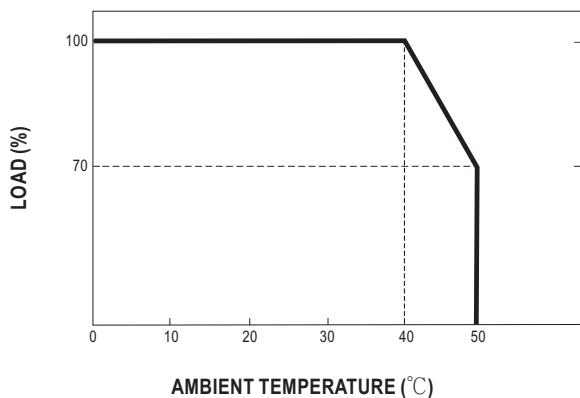
ORDER NO.	GSM06E05-P1J	GSM06E06-P1J	GSM06E07-P1J	GSM06E09-P1J	GSM06E12-P1J	GSM06E15-P1J	GSM06E18-P1J	GSM06E24-P1J							
OUTPUT	SAFETY MODEL NO.	GSM06E05	GSM06E06	GSM06E07	GSM06E09	GSM06E12	GSM06E15	GSM06E18	GSM06E24						
	DC VOLTAGE Note.2	5V	6V	7.5V	9V	12V	15V	18V	24V						
	RATED CURRENT	1.2A	1A	0.8A	0.66A	0.5A	0.4A	0.33A	0.25A						
	CURRENT RANGE	0 ~ 1.2A	0 ~ 1A	0 ~ 0.8A	0 ~ 0.66A	0 ~ 0.5A	0 ~ 0.4A	0 ~ 0.33A	0 ~ 0.25A						
	RATED POWER	6W	6W	6W	6W	6W	6W	6W	6W						
	ripple & noise (max.) Note.3	50mVp-p	50mVp-p	80mVp-p	80mVp-p	100mVp-p	120mVp-p	150mVp-p	180mVp-p						
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±4.0%						
	LINE REGULATION Note.5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%						
	LOAD REGULATION Note.6	±5.0%	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%						
SETUP, RISE, HOLD UP TIME		1000ms, 50ms, 12ms at full load													
INPUT	VOLTAGE RANGE	85 ~ 264VAC	120 ~ 370VDC												
	FREQUENCY RANGE	47 ~ 63Hz													
	EFFICIENCY (Typ.)	68%	74%	74%	76%	77%	79%	80%	82%						
	AC CURRENT	0.18A / 100VAC													
	INRUSH CURRENT (max.)	Cold start 15A / 115VAC	30A / 230VAC												
PROTECTION	LEAKAGE CURRENT(max.)	Touch current < 50µA/264VAC													
	OVERLOAD	>105% rated output power													
		Protection type : Hiccup mode, recovers automatically after fault condition is removed													
	OVER VOLTAGE	110 ~ 140% rated output power													
ENVIRONMENT	WORKING TEMP.	0 ~ +50°C (Refer to "Derating Curve")													
	WORKING HUMIDITY	20% ~ 90% RH non-condensing													
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH non-condensing													
	TEMP. COEFFICIENT	±0.04% / °C (0 ~ 40°C)													
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes													
SAFETY & EMC (Note. 7)	SAFETY STANDARDS	TUV BS EN/EN60601-1, BS EN/EN60601-1-11, EAC TP TC 004 approved													
	ISOLATION LEVEL	Primary - Secondary: 2 x MOPP													
	WITHSTAND VOLTAGE	I/P-O/P:5656VDC													
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH													
	EMC EMISSION	Parameter	Standard	Test Level / Note											
		Conducted emission	BS EN/EN55011 (CISPR11)	Class B											
		Radiated emission	BS EN/EN55011 (CISPR11)	Class B											
		Harmonic current	BS EN/EN61000-3-2	Class A											
	EMC IMMUNITY	Voltage flicker	BS EN/EN61000-3-3	----											
		BS EN/EN55024 , BS EN/EN60601-1-2, BS EN/EN61204-3													
		Parameter	Standard	Test Level / Note											
		ESD	BS EN/EN61000-4-2	Level 4, 15KV air ; Level 4, 8KV contact											
		RF field susceptibility	BS EN/EN61000-4-3	Level 3, 10V/m(80MHz~2.7GHz) Table 9, 9~28V/m(385MHz~5.78GHz)											
		EFT bursts	BS EN/EN61000-4-4	Level 3, 2KV											
		Surge susceptibility	BS EN/EN61000-4-5	Level 3, 1KV/Line-Line											
		Conducted susceptibility	BS EN/EN61000-4-6	Level 2, 3V											
		Magnetic field immunity	BS EN/EN61000-4-8	Level 4, 30A/m											
		Voltage dip, interruption	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods											
OTHERS	MTBF	500Khrs min. MIL-HDBK-217F(25°C)													
	DIMENSION	32*66*42.5mm (L*W*H)													
	PACKING	100g ; 90pcs / 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	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 0% to 100% rated load. 7.The power supply is considered as an independent unit, but the final equipment still need to re-confirmed 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)														
	※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx														



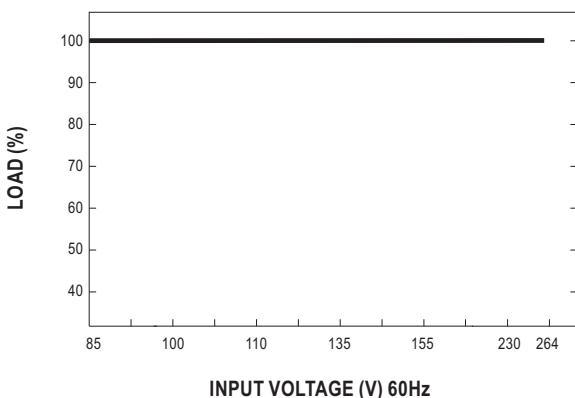
6W AC-DC Reliable Green Medical Adaptor

GSM06E series

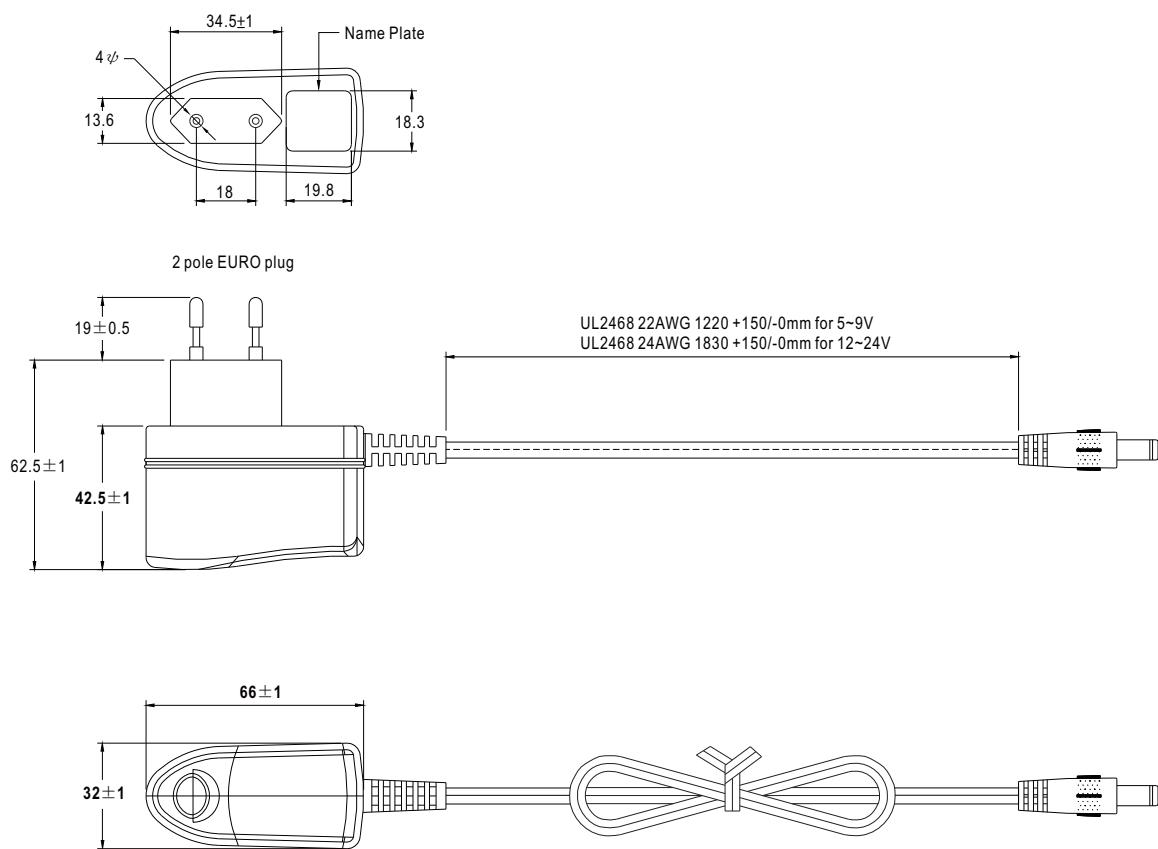
■ Derating Curve



■ Static Characteristics



■ Mechanical Specification



■ DC output plug

◎ Standard plug: P1J

Unit:mm

P1J		Pin Assignment
	5.5 2.1	
	11±0.5mm	Outside - + Inside

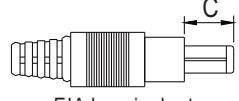
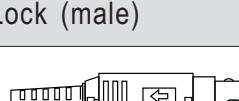
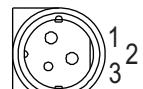
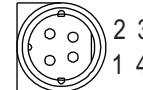
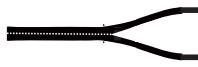
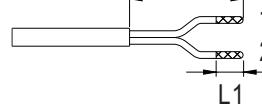
◎ Optional DC plug:

Tuning Fork Style		Type No.	A	B	C	
		OD	ID	L		
		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	B	C	
		OD	ID	L		
		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	B	C	
		OD	ID	L		
		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		
		P3A	2.35	0.7	11.0	
		P3B	4.0	1.7	11.0	
		P3C	4.75	1.7	11.0	



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Center Pin Style	Type No.	A	B	C	D
		OD	ID	L	Center Pin
	P4A	5.5	3.4	11.0	1.0
		6.5	4.4	11.0	1.4
		7.4	5.1	11.0	0.6
Min. DIN 3 Pin with Lock (male)	R6B	Pin Assignment			
		PIN No.	Output		
		1	+Vo		
	R7B	2	-Vo		
		3	+Vo		
Min. DIN 4 Pin with Lock (male)		Pin Assignment			
	R7B	PIN No.	Output		
		1	+Vo		
		2	-Vo		
		3	-Vo		
		4	+Vo		
Min. DIN 4 Pin with Lock (female)	R7BF	Pin Assignment			
		PIN No.	Output		
		1	+Vo		
		2	-Vo		
	R7BF	3	-Vo		
		4	+Vo		
Stripped and tinned leads		Pin Assignment			
	by customer	PIN No.	Output		
		1 (Ribbed)	+Vo		
Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)		2 (Letter)	-Vo		

■ Installation Manual

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