



### ■ Features

- 2 pole EURO plug , Class II power unit
- Medical safety approved (2 x MOPP) according to 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

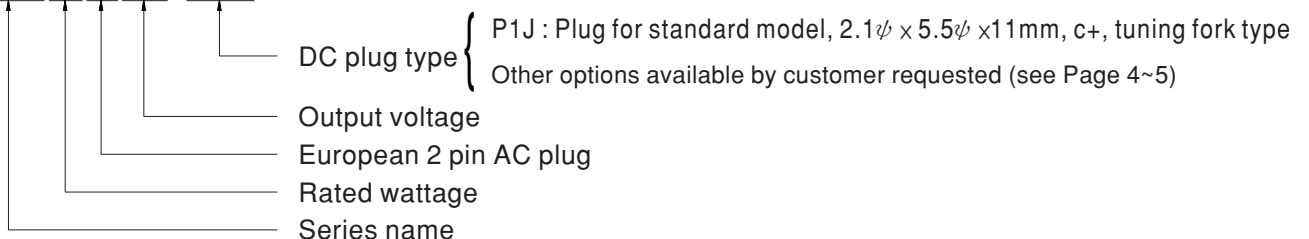
### ■ Description

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	<b>SAFETY MODEL NO.</b>	GSM06E05	GSM06E06	GSM06E07	GSM06E09	GSM06E12	GSM06E15	GSM06E18	GSM06E24	
	<b>DC VOLTAGE</b> Note.2	5V	6V	7.5V	9V	12V	15V	18V	24V	
	<b>RATED CURRENT</b>	1.2A	1A	0.8A	0.66A	0.5A	0.4A	0.33A	0.25A	
	<b>CURRENT RANGE</b>	0 ~ 1.2A	0 ~ 1A	0 ~ 0.8A	0 ~ 0.66A	0 ~ 0.5A	0 ~ 0.4A	0 ~ 0.33A	0 ~ 0.25A	
	<b>RATED POWER</b>	6W	6W	6W	6W	6W	6W	6W	6W	
	<b>RIPPLE &amp; NOISE (max.)</b> Note.3	50mVp-p	50mVp-p	80mVp-p	80mVp-p	100mVp-p	120mVp-p	150mVp-p	180mVp-p	
	<b>VOLTAGE TOLERANCE</b> Note.4	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±4.0%	
	<b>LINE REGULATION</b> Note.5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	<b>LOAD REGULATION</b> Note.6	±5.0%	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	
	<b>SETUP, RISE, HOLD UP TIME</b>	1000ms, 50ms, 12ms at full load								
INPUT	<b>VOLTAGE RANGE</b>	85 ~ 264VAC 120 ~ 370VDC								
	<b>FREQUENCY RANGE</b>	47 ~ 63Hz								
	<b>EFFICIENCY (Typ.)</b>	68%	74%	74%	76%	77%	79%	80%	82%	
	<b>AC CURRENT</b>	0.18A / 100VAC								
	<b>INRUSH CURRENT (max.)</b>	Cold start 15A/ 115VAC 30A / 230VAC								
	<b>LEAKAGE CURRENT(max.)</b>	Touch current < 50µA/264VAC								
PROTECTION	<b>OVERLOAD</b>	>105% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	<b>OVER VOLTAGE</b>	110 ~ 140% rated output power Protection type : Clamp by zener diode								
	<b>WORKING TEMP.</b>	0 ~ +50°C (Refer to "Derating Curve")								
ENVIRONMENT	<b>WORKING HUMIDITY</b>	20% ~ 90% RH non-condensing								
	<b>STORAGE TEMP., HUMIDITY</b>	-20 ~ +85°C, 10 ~ 95% RH non-condensing								
	<b>TEMP. COEFFICIENT</b>	±0.04% / °C (0 ~ 40°C)								
	<b>VIBRATION</b>	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	SAFETY & EMC (Note. 7)	<b>SAFETY STANDARDS</b>	TUV EN60601-1, EN60601-1-11, EAC TP TC 004 approved							
<b>ISOLATION LEVEL</b>		Primary - Secondary: 2 x MOPP								
<b>WITHSTAND VOLTAGE</b>		I/P-O/P:565VDC								
<b>ISOLATION RESISTANCE</b>		I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH								
<b>EMC EMISSION</b>		<b>Parameter</b>	<b>Standard</b>					<b>Test Level / Note</b>		
		Conducted emission	EN55011 (CISPR11)					Class B		
		Radiated emission	EN55011 (CISPR11)					Class B		
		Harmonic current	EN61000-3-2					Class A		
		Voltage flicker	EN61000-3-3					-----		
<b>EMC IMMUNITY</b>		EN55024 , EN60601-1-2, EN61204-3								
		<b>Parameter</b>	<b>Standard</b>					<b>Test Level / Note</b>		
		ESD	EN61000-4-2					Level 4, 15KV air ; Level 4, 8KV contact		
		RF field susceptibility	EN61000-4-3					Level 3, 10V/m(80MHz~2.7GHz) Table 9, 9~28V/m(385MHz~5.78GHz)		
		EFT bursts	EN61000-4-4					Level 3, 2KV		
		Surge susceptibility	EN61000-4-5					Level 3, 1KV/Line-Line		
	Conducted susceptibility	EN61000-4-6					Level 2, 3V			
	Magnetic field immunity	EN61000-4-8					Level 4, 30A/m			
	Voltage dip, interruption	EN61000-4-11					>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods			
OTHERS	<b>MTBF</b>	500Khrs min. MIL-HDBK-217F(25°C)								
	<b>DIMENSION</b>	32*66*42.5mm (L*W*H)								
	<b>PACKING</b>	100g ; 90pcs / 10Kg / CARTON								
CONNECTOR	<b>PLUG</b>	See page 4~5 ; Other type available by customer requested								
	<b>CABLE</b>	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 0% to 100% rated load.</p> <p>7.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>									

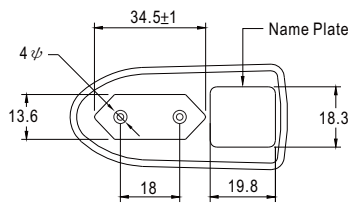
■ Derating Curve



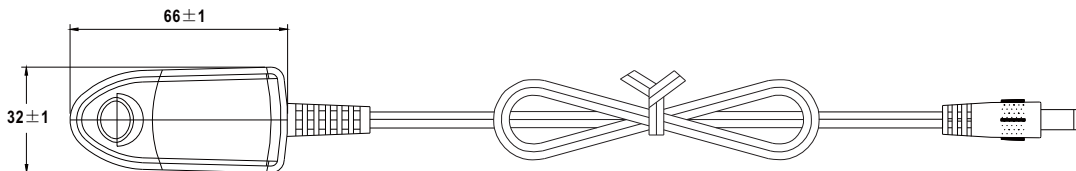
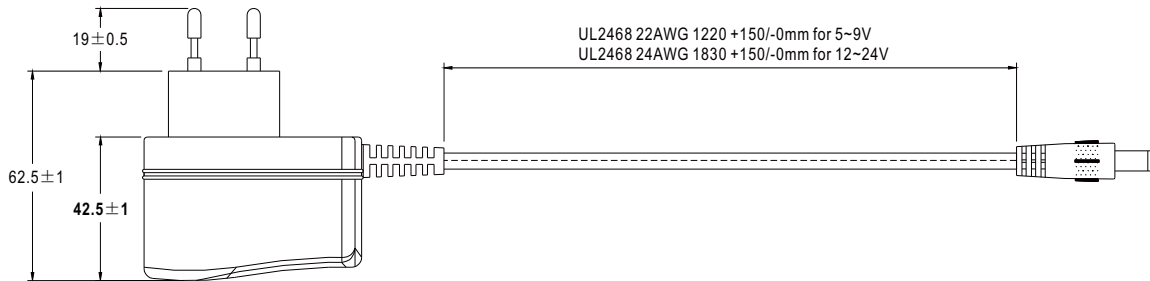
■ Static Characteristics



■ Mechanical Specification



2 pole EURO plug



■ DC output plug

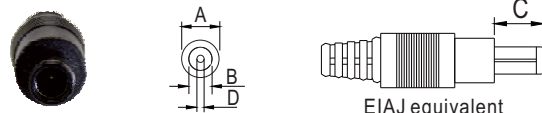
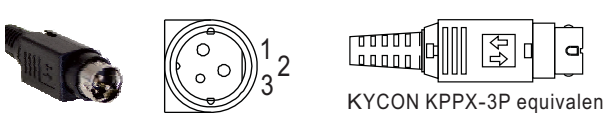
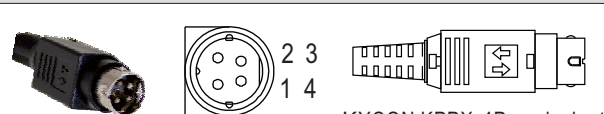
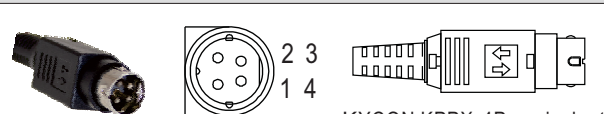
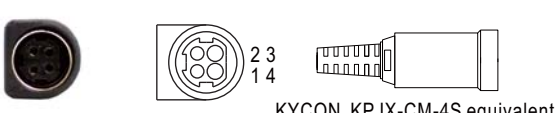

◎ Standard plug: P1J

Unit:mm

P1J	Pin Assignment
	<p>C<sup>+</sup>*</p>
	<p>Outside ⊖ ⊕ Inside</p>

◎ Optional DC plug:

Tuning Fork Style		Type No.	A OD	B ID	C L
	<p>(Straight)</p>	P1I	5.5	2.1	9.5
		P1L	5.5	2.5	9.5
		P1M	5.5	2.5	11.0
	<p>(Right-angled)</p>	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
	<p>(Straight)</p>	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
	<p>(Right-angled)</p>	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
<p>Floating Locking SWITCHCRAFT original or equivalent</p>	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
<p>EIAJ equivalent</p>	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	B	C	D
		OD	ID	L	Center Pin
 <p>EIAJ equivalent</p>	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			
 <p>KYCON KPPX-3P equivalent</p>	R6B	PIN No.	Output		
		1	+Vo		
		2	-Vo		
 <p>KYCON KPPX-4P equivalent</p>	R7B	PIN No.	Output		
		1	+Vo		
		2	-Vo		
 <p>KYCON KPPX-4P equivalent</p>	R7B	3	-Vo		
		4	+Vo		
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment			
 <p>KYCON KPJX-CM-4S equivalent</p>	R7BF	PIN No.	Output		
		1	+Vo		
		2	-Vo		
		3	-Vo		
 <p>Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)</p>	by customer	PIN No.	Output		
		1 ( Ribbed )	+Vo		
		2 ( Letter )	-Vo		

■ **Installation Manual**

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

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