



### ■ Features

- 2 pole USA AC plug, Class II power unit
- Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1
- 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

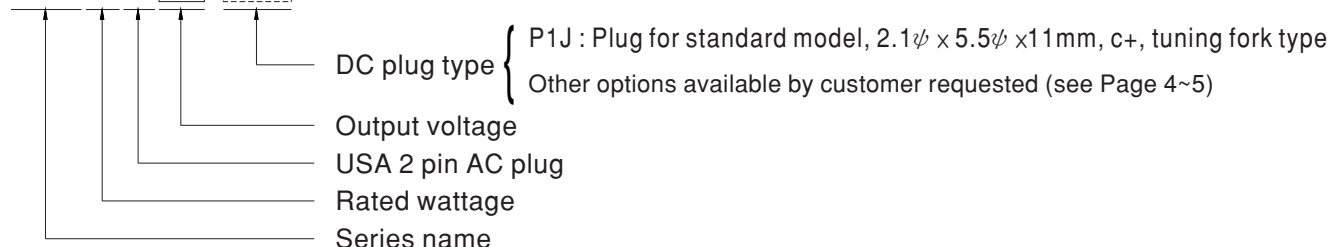
### ■ Description

GSM06U 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 USA AC 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. GSM06U is compliant with USA EISA 2007. 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. GSM06U is approved with the international medical safety certificates.

### ■ Model Encoding

**GSM06 U 05 -P1J**





6W AC-DC Reliable Green Medical Adaptor

**GSM06U** series

**SPECIFICATION**

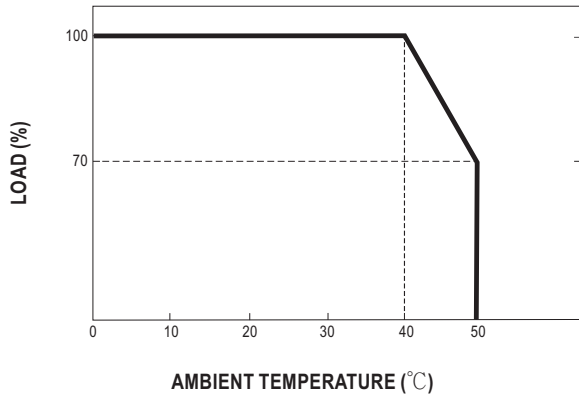
ORDER NO.	GSM06U05-P1J	GSM06U06-P1J	GSM06U07-P1J	GSM06U09-P1J	GSM06U12-P1J	GSM06U15-P1J	GSM06U18-P1J	GSM06U24-P1J	
OUTPUT	SAFETY MODEL NO.	GSM06U05	GSM06U06	GSM06U07	GSM06U09	GSM06U12	GSM06U15	GSM06U18	GSM06U24
	DC VOLTAGE <span style="float:right">Note.2</span>	5V	6V	7.5V	9V	12V	15V	18V	24V
	RATED CURRENT	1.2A	1.0A	0.8A	0.66A	0.5A	0.4A	0.33A	0.25A
	CURRENT RANGE	0 ~ 1.2A	0 ~ 1.0A	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.) <span style="float:right">Note.3</span>	50mVp-p	50mVp-p	80mVp-p	80mVp-p	100mVp-p	120mVp-p	150mVp-p	180mVp-p
	VOLTAGE TOLERANCE <span style="float:right">Note.4</span>	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±4.0%
	LINE REGULATION <span style="float:right">Note.5</span>	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION <span style="float:right">Note.6</span>	±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							
LEAKAGE CURRENT(max.)	Touch current < 50µA/264VAC								
PROTECTION	OVERLOAD	>105% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed							
	OVER VOLTAGE	>120% rated output voltage Protection type : Clamp by zener diode							
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	ANSI/AAMI ES60601-1(3.1 version),CAN/CSA-C22 3rd edition approved							
	WITHSTAND VOLTAGE	I/P-O/P:565VDC							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION	Parameter	Standard					Test Level / Note	
Conducted emission		FCC PART 15 & 18 / CISPR22, CAN ICES-3(B)/NMB-3(B)					Class B		
Radiated emission		FCC PART 15 & 18 / CISPR22, CAN ICES-3(B)/NMB-3(B)					Class B		
OTHERS	MTBF	500Khrs min. MIL-HDBK-217F(25°C)							
	DIMENSION	32*66*42.5mm (L*W*H)							
	PACKING	100g; 110pcs/12Kg/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 115VAC 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.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>								

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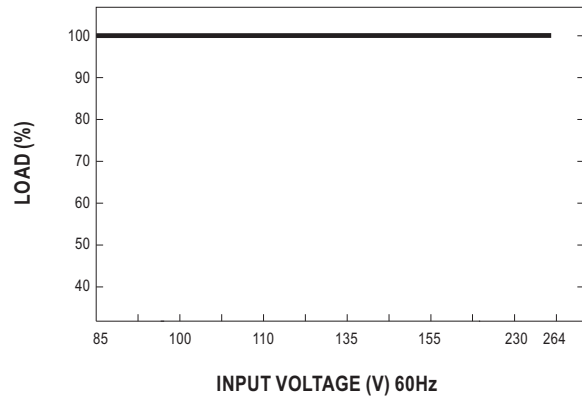


Note: all features are subject to change without notice.

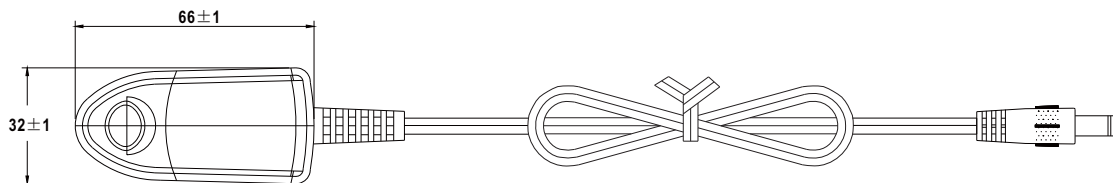
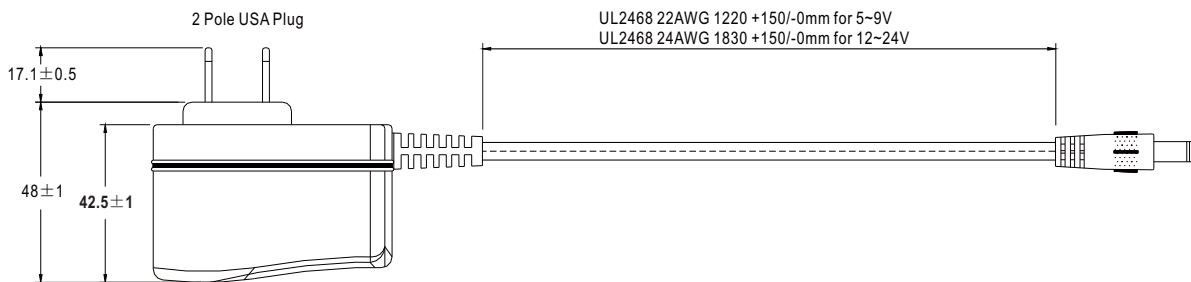
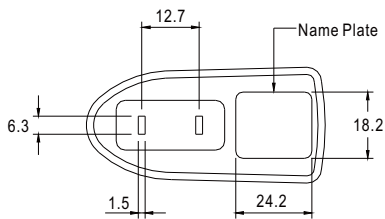
■ Derating Curve



■ Static Characteristics



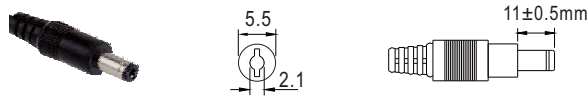


■ Mechanical Specification




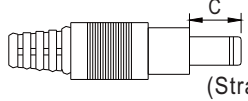
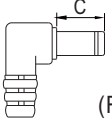

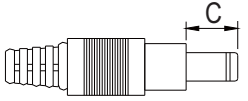
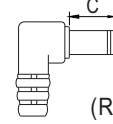
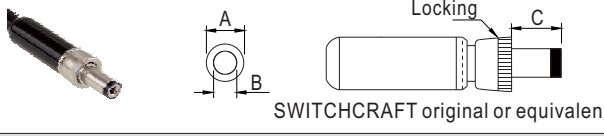
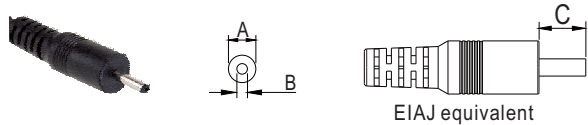
■ DC output plug





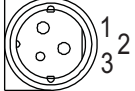
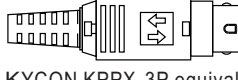


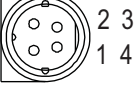
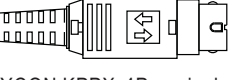



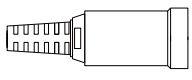

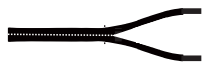
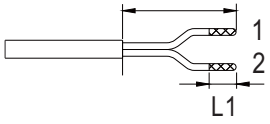
☉ Standard plug: P1J

Unit:mm

P1J	Pin Assignment
	
	Outside  Inside

☉ Optional DC plug:

Tuning Fork Style		Type No.	A OD	B ID	C L
	 (Straight)	P1I	5.5	2.1	9.5
		P1L	5.5	2.5	9.5
	 (Right-angled)	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
Barrel Style		Type No.	A OD	B ID	C L
	 (Straight)	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
	 (Right-angled)	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
	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
	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			
		3	+Vo			
	Min. DIN 4 Pin with Lock (male)	Type No.	Pin Assignment			
	   <p>KYCON KPPX-4P equivalent</p>	R7B	PIN No.	Output		
1			+Vo			
2			-Vo			
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			
		4	+Vo			
	Stripped and tinned leads	Type No.	Pin Assignment			
	  <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>