



## ■ Features

- Universal AC input / Full range
- 2 pole USA plug
- Low leakage current  $<50\mu\text{A}$
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- Medical safety approved (2 x MOPP between primary to secondary)
- Class II power (without earth pin)
- No load power consumption  $<0.3\text{W}$
- ErP step2 compliant (level V)
- Meet EISA 2007 (Energy Independence and Security Act)
- Optional lock type DC plug
- 3 years warranty

## ■ Applications

- Blood glucose meter
- Blood pressure meter
- Nebulizer
- Inhaler
- Portable medical device

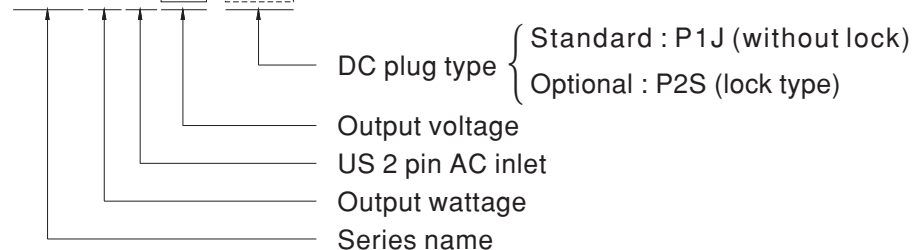
## ■ Description

GSM06U is a highly reliable, 6W single-output green medical adaptor series. This product is equipped with a 2-pin (no FG) standard US 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 ( $<50\mu\text{A}$ ), 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, the design of GSM06U observes the latest energy regulation (level V); 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

**GSM06U 05 -P1J**

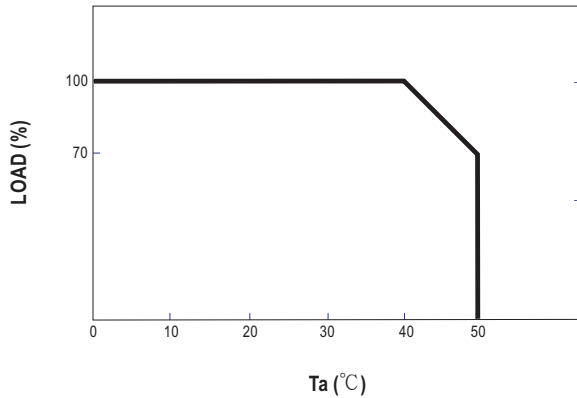




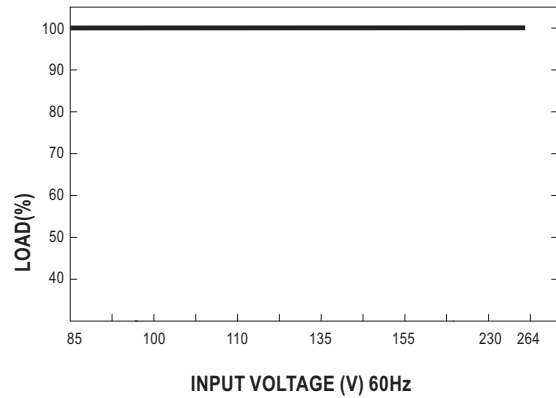
## SPECIFICATION

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>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>Note.3</span>	50mVp-p	50mVp-p	80mVp-p	80mVp-p	100mVp-p	120mVp-p	150mVp-p	180mVp-p
	VOLTAGE TOLERANCE <span>Note.4</span>	± 5.0%	± 5.0%	± 5.0%	± 5.0%	± 5.0%	± 5.0%	± 5.0%	± 4.0%
	LINE REGULATION <span>Note.5</span>	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	LOAD REGULATION <span>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.)	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							
	WORKING TEMP.	0 ~ +40℃ (Refer to "Derating Curve")							
ENVIRONMENT	WORKING HUMIDITY	20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.04% / °C (0 ~ 40℃)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
SAFETY & EMC (Note. 8)	SAFETY STANDARDS	IEC60950-1, ANSI/AAMI ES60601-1-11 approved							
	WITHSTAND VOLTAGE	I/P-O/P:5656VDC							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH							
	EMC EMISSION	Compliance to FCC part 15 Class B							
OTHERS	MTBF	500Khrs min. MIL-HDBK-217F(25℃)							
	DIMENSION	32*66*42.5mm (L*W*H)							
	PACKING	100g ; 110pcs / 12Kg / CARTON							
CONNECTOR	PLUG	Standard type P1J: 2.1φ * 5.5φ * 11mm, turning fork type center positive for stock ; Other type available by customer requested							
	CABLE	See page3 ; Other type available by customer requested							
NOTE	1.All parameters are specified at 115VAC input, rated load, 25℃ 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 0.1uf & 47uf 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-confirm that the whole system complies with the EMC directives.								

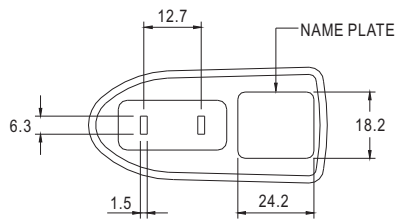
### Derating Curve



### Static Characteristics



### Mechanical Specification



### Plug Assignment

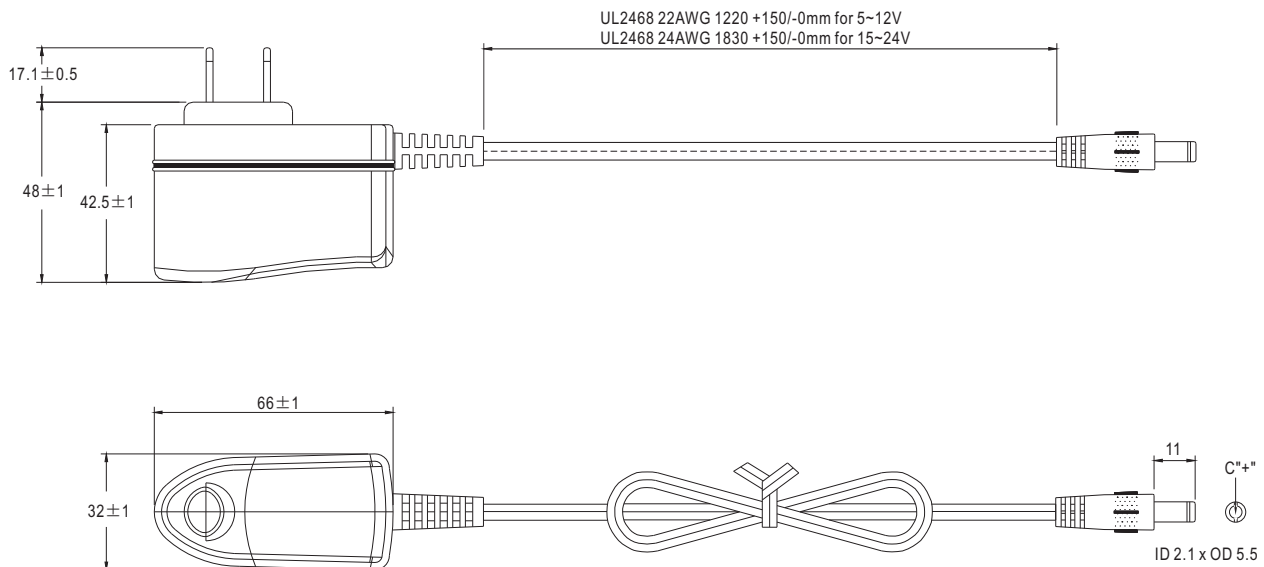
Unit:mm

Standard plug: P1J

P1J	
P/N	OUTPUT
CENTER	+

Optional lock type plug: P2S

SWITCHCRAFT S761K plug equivalent



### Installation Manual

Please refer to : <http://www.meanwell.com/webnet/search/InstallationSearch.html>