



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

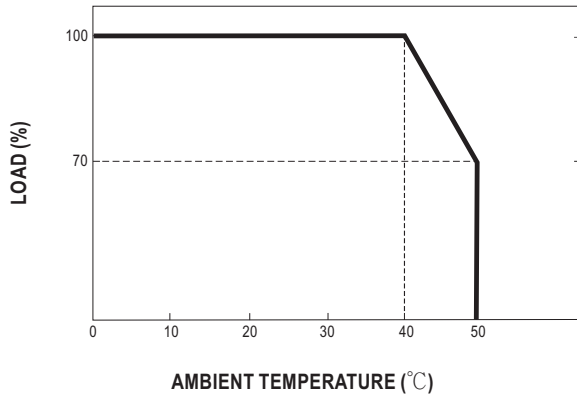
GSM06 U 05 -P1J

- DC plug type { P1J : Plug for standard model, 2.1ψ × 5.5ψ × 11mm, c+, tuning fork type
Other options available by customer requested (see Page 4~5)
- Output voltage
- USA 2 pin AC plug
- Rated wattage
- Series name

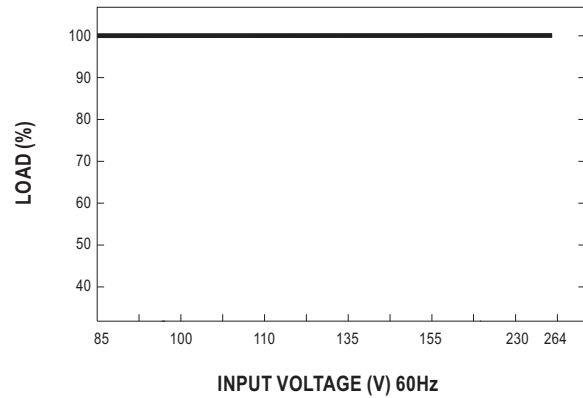
**SPECIFICATION**

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 Note.2	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.) 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							
	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 ~ +50℃ (Refer to "Derating Curve")							
ENVIRONMENT	WORKING HUMIDITY	20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH non-condensing							
	TEMP. COEFFICIENT	± 0.04% / °C (0 ~ 40℃)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	ANSI/AAMI ES60601-1(3.1 version),CAN/CSA-C22 3rd edition approved							
SAFETY & EMC Note. 7	WITHSTAND VOLTAGE	I/P-O/P:5656VDC							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃/ 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℃)						
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	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 0.1µf & 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 10% 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. 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)								

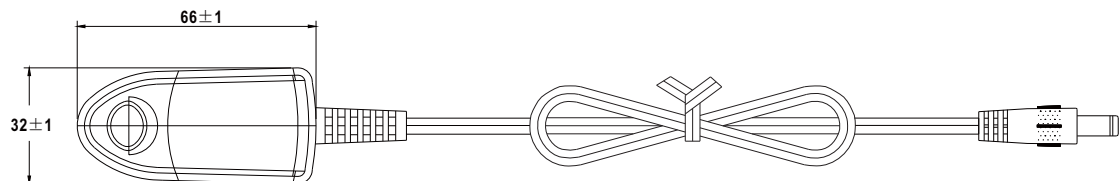
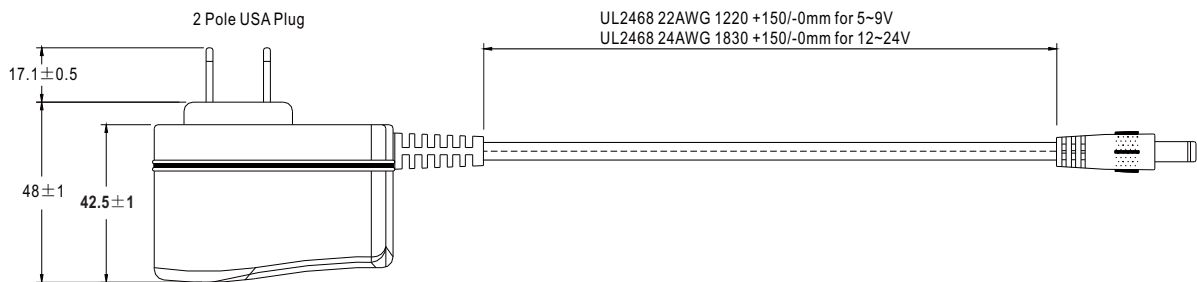
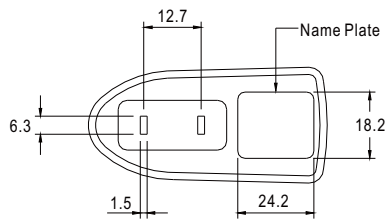
Derating Curve



Static Characteristics



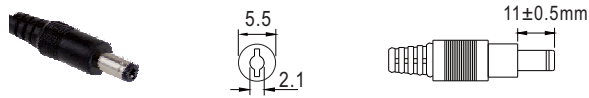
Mechanical Specification



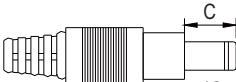
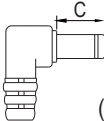
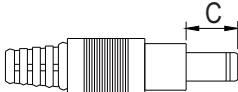
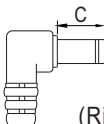
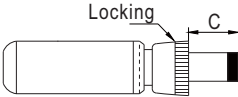
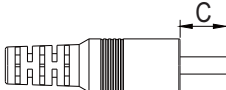
■ DC output plug

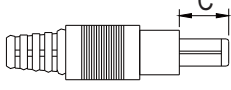
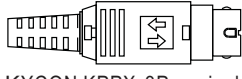
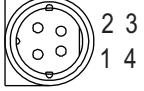
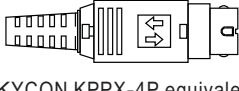
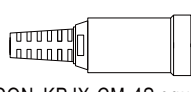
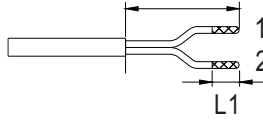
◎ Standard plug: P1J

Unit:mm

P1J	Pin Assignment
	
	Outside  Inside

◎ Optional DC plug:

Tuning Fork Style		Type No.	A	B	C
			OD	ID	L
 	 (Straight)	P1I	5.5	2.1	9.5
		P1L	5.5	2.5	9.5
		P1M	5.5	2.5	11.0
	 (Right-angled)	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
 	 (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	B	C
			OD	ID	L
   SWITCHCRAFT original or equivalent	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
   EIAJ equivalent	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	
   EIAJ equivalent	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				
   KYCON KPPX-3P equivalent	R6B	PIN No.	Output			
		1	+Vo			
		2	-Vo			
		3	+Vo			
		Type No.	Pin Assignment			
		PIN No.	Output			
   KYCON KPPX-4P equivalent	R7B	1	+Vo			
		2	-Vo			
		3	-Vo			
		4	+Vo			
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment				
   KYCON KPJX-CM-4S equivalent	R7BF	PIN No.	Output			
		1	+Vo			
		2	-Vo			
		3	-Vo			
		4	+Vo			
		Type No.	Pin Assignment			
Stripped and tinned leads	Type No.	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)	by customer	2 (Letter)	-Vo			

■ Installation Manual

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