



















#### Features

- · 2 pole USA AC plug, Class II power unit
- · Medical safety approved (2 x MOPP) accroding to ANSI/AAMI ES60601-1
- Extremely low leakage current
- No load power consumption < 0.3W</li>
- Energy efficiency Level V
- · Protections: Short circuit / Overload / Over voltage
- · Fully enclosed plastic case
- · Various DC plug quick adaptor accessories available. Contact TRC Electronics for details.
- 3 years warranty

## Applications

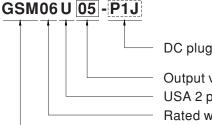
- · Blood glucose meter
- · Blood pressure meter
- Nebulizer
- Inhaler
- · Portable medical device

### 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



DC plug type  $\left\{ \begin{array}{l} \text{P1J : Plug for standard model, } 2.1\psi \times 5.5\psi \times 11\text{mm, c+, tuning fork type} \\ \text{Other options available by customer requested (see Page 4~5)} \end{array} \right.$ 

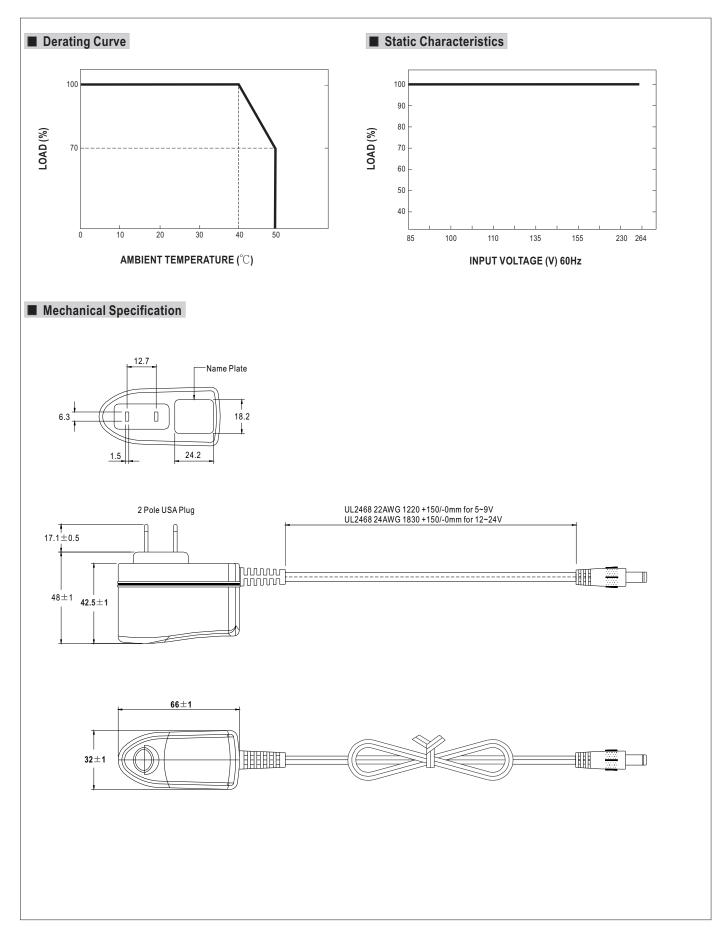
Output voltage USA 2 pin AC plug Rated wattage Series name



#### **SPECIFICATION**

	).	GSM06U05-P1J	GSM06U06-P1J	GSM06U07-P1J	GSM06U09-P1J	GSM06U12-P1J	GSM06U15-P1J	GSM06U18-P1J	GSM06U24-P1.			
	SAFETY MODEL NO.	GSM06U05	GSM06U06	GSM06U07	GSM06U09	GSM06U12	GSM06U15	GSM06U18	GSM06U24			
	DC VOLTAGE Note.2		6V	7.5V	9V	12V	15V	18V	24V			
ОИТРИТ	RATED CURRENT	1.2A	1.0A	0.8A	0.66A	0.5A	0.4A	0.33A	0.25A			
	CURRENT RANGE		0 ~ 1.0A	0 ~ 0.8A	0.00A 0 ~ 0.66A	0.5A 0 ~ 0.5A	0.4A 0 ~ 0.4A	0.33A	0.25A 0 ~ 0.25A			
	RATED POWER		6W	6W	6W	6W	6W	6W	6W			
	1 1 1 2 1 7 1 1 2 1 1	-			1.1	-	1.1					
	RIPPLE & NOISE (max.) Note.3 VOLTAGE TOLERANCE Note.4		50mVp-p ±5.0%	80mVp-p ±5.0%	80mVp-p ±5.0%	100mVp-p ±5.0%	120mVp-p ±5.0%	150mVp-p ±5.0%	180mVp-p ±4.0%			
		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
		±5.0%	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%			
					±5.0%	⊥3.0%			⊥2.0%			
	VOLTAGE RANGE	1000ms, 50ms, 12ms at full load 85 ~ 264VAC 120 ~ 370VDC										
	FREQUENCY RANGE	47 ~ 63Hz										
		68%	74%	74%	76%	77%	79%	80%	82%			
INPUT	EFFICIENCY (Typ.) AC CURRENT	0.18A / 100VAC		14/0	1070	11/0	1970	00 //	02 /0			
	INRUSH CURRENT (max.)			20 4 / 220 / 4 0								
	LEAKAGE CURRENT(max.)	Cold start 15A		30A / 230VAC								
	LEARAGE CORRENT(IIIax.)	Touch current < 50µA/264VAC										
	OVERLOAD	>105% rated ou	<del></del>	rocovoro autom	atically after for	ult condition is ro	mound					
PROTECTION		Protection type: Hiccup mode, recovers automatically after fault condition is removed >120% rated output voltage										
	OVER VOLTAGE			ar dioda								
	Protection type : Clamp by zener diode  WORKING TEMP. 0 ~ +50°C (Refer to "Derating Curve")											
	WORKING HUMIDITY	20% ~ 90% RH		<u> </u>								
ENVIRONMENT		-20 ~ +85°C, 10 ~ 95% RH non-condensing										
	TEMP. COEFFICIENT	±0.04% / °C (0 ~ 40°C)										
	VIBRATION	,		period for 60min.	each along X, Y,	. Z axes						
	SAFETY STANDARDS	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes  ANSI/AAMI ES60601-1(3.1 version), CAN/CSA-C22 NO. 60601-1 3rd edition, EAC TP TC 004 approved										
	WITHSTAND VOLTAGE	I/P-O/P:5656VDC										
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH										
SAFETY &		Parameter		Standard		Test	Test Level / Note					
EMC (Note. 7)	EMC EMISSION	Conducted en	ission FCC PART 15 & 18 / CISPR22, CAN ICES-3(B)/NMB-3(B)			MB-3(B) Clas	Class B					
		Radiated emis	ssion	FCC PART 15 8	. 18 / CISPR22, C	MB-3(B) Clas	Class B					
	MTBF	500Khrs min. MIL-HDBK-217F(25°C)										
OTHERS	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										
CONNECTOR	CABLE	See page 4~5; Other type available by customer requested										
NOTE	1 All parameters are specified at 115VAC input rated load 25°C 70% RH ambient											
	4.1 olerance: includes set up tolerance, line regulation, load regulation.											
NOTE	5.Line regulation is measured from low line to high line at rated load.											
NOTE	6.Load regulation is measured from 10% to 100% rated load.											
NOTE	6.Load regulation is measure		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									
NOTE	· ·	lered as an indep	endent unit, bu	t the final equip	ment still need to	re-confirm that	the whole syste	m complies with	the			
NOTE	· ·						-		ı the			
OTHERS CONNECTOR	Radiated emission  FCC PART 15 & 18 / CISPR22, CAN ICES-3(B)/NMB-3(B)  MTBF  500Khrs min. MIL-HDBK-217F(25°C)  DIMENSION  32*66*42.5mm (L*W*H)  PACKING  100g; 110pcs/12Kg/CARTON  PLUG  See page 4~5; Other type available by customer requested  CABLE  See page 4~5; Other type available by customer requested  1.All parameters are specified at 115VAC 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 10% to 100% rated load.											



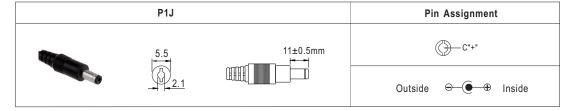




## ■ DC output plug

O Standard plug: P1J

Unit:mm



- O DC plug changeable through:
  - (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
  - (2) Quick adapter accessory (sold separately without MOQ)

Please refer to below table: Example quick adapter accessory:



Optional DC plug: (Available in customized cable or quick adapter)

	<b>-</b>	1.04.1		А	В	С	Quick Adapter
Tuning Fork Style			Type No.	OD	ID	L	Accessory
	A B	C	P1I	5.5	2.1	9.5	
		(Straight)	P1L	5.5	2.5	9.5	
The same of the sa			P1M	5.5	2.5	11.0	A = !! = I= ! =
1			P1IR	5.5	2.1	9.5	Available
			P1JR	5.5	2.1	11.0	(Current rating: 7.5A max.)
			P1LR	5.5	2.5	9.5	
		(Right-angled)	P1MR	5.5	2.5	11.0	
	Barrel	Type No.	Α	В	С		
Darrer Style			турстчо.	OD	ID	L	
		_ C_,	P2I	5.5	2.1	9.5	
	A B	(Straight)	P2J	5.5	2.1	11.0	
			P2L	5.5	2.5	9.5	None
			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	
		(Right-angled)	P2MR	5.5	2.5	11.0	
Lock Style			Type No.	Α	В	С	
			• • • • • • • • • • • • • • • • • • • •	OD	ID	L	
	A B	Floating Locking C-	P2S(S761K)	5.53	2.03	12.06	None
			P2K(761K)	5.53	2.54	12.06	
0			P2C(S760K)	5.53	2.03	9.52	
		SWITCHCRAFT original or equivalent	P2D(760K)	5.53	2.54	9.52	
Min. Pin Style			Type No.	А	В	С	
			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OD	ID	L	
(allega)	A B	<del>C</del> +	P3A	2.35	0.7	11.0	Available
		B GARAGE	P3B	4.0	1.7	11.0	(Current rating: 5A max.)
		EIAJ equivalent	P3C	4.75	1.7	11.0	



Center Pin Style	Type No.	А	В	С	D	Quick Adapter		
Center i in Style	туре но.	OD	ID	L	Center Pin	Accessory		
C C	P4A	5.5	3.4	11.0	1.0			
	P4B	6.5	4.4	11.0	1.4	Available (Current rating: 7.5A max.)		
EIAJ equivalent	P4C	7.4	5.1	11.0	0.6	(ourrontruting. 1.67 thax.)		
·	Type No.	Pin Assignment						
Min. DIN 3 Pin with Lock (male)		PIN No		Outpu	t			
	R6B	1		+Vo		Available		
		2		-Vo		(Current rating: 7.5A max.)		
KYCON KPPX-3P equivalent		3		+Vo				
	T N	Pin Assignment						
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No		Output				
ann la	R7B	1		+Vo		Available		
2 3		2		-Vo -Vo		(Current rating: 7.5A max.)		
1 4 KYCON KPPX-4P equivalent		3						
KTOON KIT X-41 equivalent		4		+Vo				
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment						
Will. Div 41 ill with Look (lenate)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PIN No		Output				
	R7BF	1		+V0		None		
		2		-Vo -Vo		None		
		3						
KYCON KPJX-CM-4S equivalent		4		+Vo				
Stripped and tinned leads	Type No.	Pin Assignment						
Ottipped and tillled leads		PIN No		Outpu	t			
(red) 1 2 2 2 1 4 (t t t t t t t t t t t t t t t t t t	by customer	1		+Vo		None		
L1 (black)  Length of Land L1 by request  (MW's standard length, L: 25 mm, L1: 10 mm)	by customer	2		-Vo				