



















Applications

Nebulizer

Inhaler

· Blood glucose meter

Blood pressure meter

· Portable medical device





■ Features

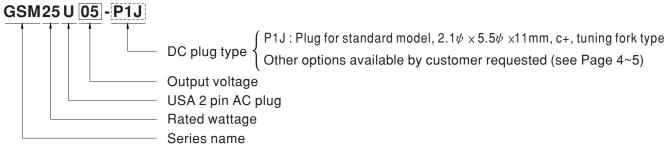
- · 2 pole USA plug, Class II power unit
- Medical safety approved ($2 \times MOPP$) according to ANSI/AAMI ES60601-1/-1-11
- · Extremely low leakage current
- No load power consumption<0.1W
- Energy efficiency Level VI (except 5~9V for Level V)
- -25~+60°C wide range working temperature
- · Protections: Short circuit / Overload / Over voltage
- · LED indicator for power on
- Various DC plug quick adapter accessory available
 (Plug kit sold sperately, please refer to: http://www.meanwell.com/upload/pdf/DC plug.pdf
- 3 years warranty

Description

GSM25U is a highly reliable, 25W 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 80VAC to 264VAC. The entire series supplies different output voltages between 5VDC and 48VDC that can satisfy the demands for various kinds of miniature medical devices. The circuitry design meets the international medical standards ($2 \times \text{MOPP}$), 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 88% and the extreme low no-load power consumption below 0.1W, GSM25U is compliant with USA EISA 2007/DoE and Canada NRCan; 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. GSM25U is approved with the international medical safety certificates.

■ Model Encoding

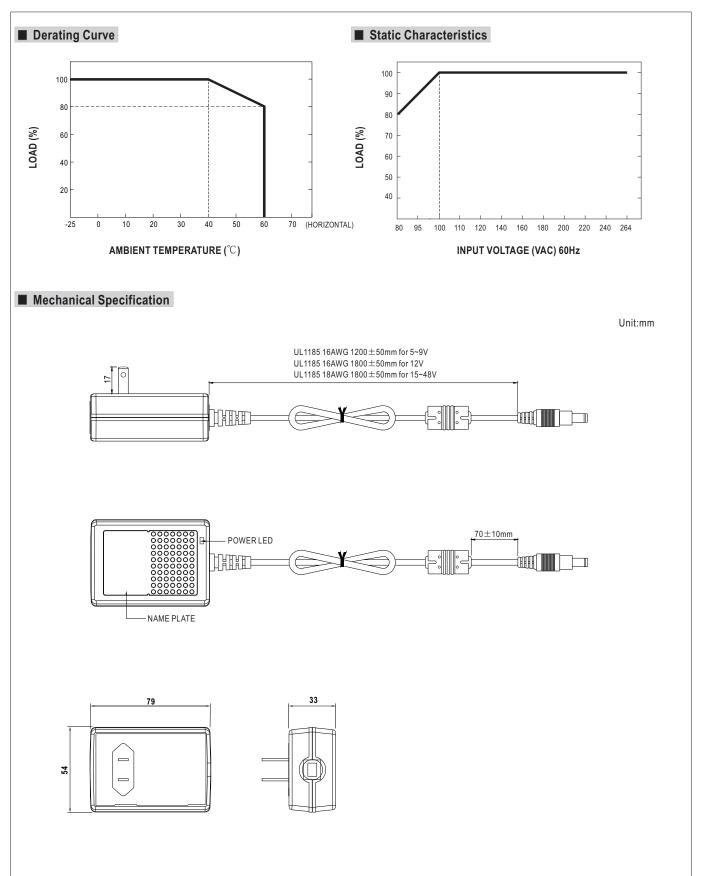




SPECIFICATION

ORDER NO).	GSM25U05-P1J	GSM25U07-P1J	GSM25U09-P1J	GSM25U12-P1	JGSM25U15-P1	GSM25U18-P	J GSM25U24-P1	GSM25U48-P1		
	SAFETY MODEL NO.	GSM25U05	GSM25U07	GSM25U09	GSM25U12	GSM25U15	GSM25U18	GSM25U24	GSM25U48		
	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V		
	RATED CURRENT	4A	2.93A	2.77A	2.08A	1.66A	1.38A	1.04A	0.52A		
	CURRENT RANGE	0 ~ 4A	0 ~ 2.93A	0 ~ 2.77A	0 ~ 2.08A	0 ~ 1.66A	0 ~ 1.38A	0 ~ 1.04A	0 ~ 0.52A		
	RATED POWER (max.)	20W	22W	25W	25W	25W	25W	25W	25W		
OUTPUT	RIPPLE & NOISE (max.) Note.3	-	80mVp-p	80mVp-p	120mVp-p	120mVp-p	150mVp-p	180mVp-p	240mVp-p		
	VOLTAGE TOLERANCE Note.4		±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%		
	LINE REGULATION Note.5							±1.0%	±1.0%		
	LOAD REGULATION	±1.0% ±6.0%	±1.0% ±5.0%	±1.0% ±5.0%	±1.0% ±3.0%	±1.0% ±3.0%	±1.0% ±3.0%	±2.0%	±2.0%		
	HOLD UP TIME (Typ.)	500ms, 30ms 16ms / 230VA		115VAC at full	s / 115VAC at f	uli load					
					loau						
		80 ~ 264VAC 113 ~ 370VDC									
	FREQUENCY (Typ.)	47 ~ 63Hz 80%	83%	84%	86%	87%	87%	87%	88%		
INPUT	EFFICIENCY (Typ.)				0070	0170	0170	01 70	0070		
INPUT PROTECTION ENVIRONMENT SAFETY & EMC (Note. 8) OTHERS CONNECTOR	AC CURRENT (Typ.)	0.7A / 115VAC									
	INRUSH CURRENT (Typ.)	55A / 230VAC 30A / 115VAC									
	LEAKAGE CURRENT(max.) Touch current < 50 \(\times A/264 \text{VAC} \)										
PROTECTION	OVERLOAD	105 ~ 170% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed									
	OVER VOLTAGE	5.25 ~ 7.5V 7.88 ~ 10.5V 9.45 ~ 13V 12.6 ~ 17.2V 15.75 ~ 20.25 V 18.9 ~ 25.2V 25.2 ~ 32.4V 50.4 ~ 64.8V									
	WORKING TEMP	Protection type: Shut down o/p voltage, re-power on to recover									
	WORKING TEMP.	-25 ~ +60°C (Refer to "Derating Curve")									
FNVIRONMENT	WORKING HUMIDITY STORAGE TEMP., HUMIDITY	20% ~ 90% RH non-condensing									
	TEMP. COEFFICIENT	to do an in document									
		±0.03% / °C (0~40°C)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
	SAFETY STANDARDS ISOLATION LEVEL	ANSI/AAMI ES60601-1, ES60601-1-11, EAC TP TC 004 approved									
SAFETY &		Primary-Secondary: 2xMOPP									
	ISOLATION RESISTANCE	I/P-O/P:4KVAC I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH									
(Note. 8)	ISOLATION RESISTANCE		Onms / 500VL								
		Parameter Standard Test Level / Note									
PROTECTION ENVIRONMENT SAFETY & EMC (Note. 8)	EMC EMISSION	Conducted emission FCC PART 15 / CISPR22 Class B									
		Radiated emission FCC PART 15 / CISPR22 Class B									
PROTECTION ENVIRONMENT SAFETY & EMC (Note. 8) OTHERS	MTBF	796.7K hrs min. MIL-HDBK-217F(25°C)									
OTHERS	DIMENSION	79*54*33mm (L*W*H)									
	PACKING	215g; 60pcs / 13.9Kg / CARTON									
CONNECTOR	PLUG	See page 4~5; Other type available by customer requested									
COMMEDICAL	CABLE	See page 4~5; Other type available by customer requested									
NOTE	 All parameters are specified at 115VAC input, rated load, 25°C 70% RH ambient. DC voltage: The output voltage set at point measure by plug terminal & 50% load. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1μf & 47μf capacitor. Tolerance: includes set up tolerance, line regulation, load regulation. Line regulation is measured from low line to high line at rated load. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. Derating may be needed under low input voltage. Please check the derating curve for more details. 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) 										

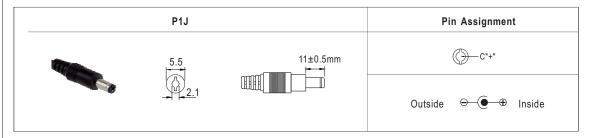






■ DC output plug

O Standard plug: P1J



Plug changeable with quick adapter (sold seperately) (Changeable DC plug selection guide : http://www.meanwell.com/upload/pdf/DC_plug.pdf)

For example:



Optional DC plug:

			A	В	С	Ouiok Adoptor
Tuning Fo	Type No.	OD	ID	ı	Quick Adapter Accessory	
	. C .	P1I	5.5	2.1	9.5	710003301y
	(Straight) (Right-angled)	P1L	5.5	2.5	9.5	
^		P1M		2.5	11.0	
A A		P1IR	5.5 5.5	2.5	9.5	Available
<u> Дв</u>		P1JR	5.5	2.1	11.0	Available
		P1LR	5.5	2.5	9.5	
Current rating: 7.5A max.		P1MR	5.5	2.5	11.0	
,	Outroncrating, 7.5Amax.			B B	C C	
Barrel	Type No.	A OD	ID			
		Dal	5.5	2.1	L 0.5	
	(Straight)	P2I P2J		2.1	9.5	
			5.5	2.5	11.0 9.5	
A		P2L	5.5		11.0	None
A A		P2M	5.5 5.5	2.5		
<u> </u>		P2IR P2JR		2.1	9.5	
		P2JR P2LR	5.5 5.5	2.5	11.0 9.5	
Current rating: 7.5A max.	(Right-angled)				11.0	
Current rating. 1:0/tmax.	P2MR	5.5	2.5			
Lock S	Type No.	A	В	С		
	D00(0704K)	OD	ID	L 10.00		
I A	Floating Locking C	P2S(S761K)	5.53	2.03	12.06	None
□ □ B		P2K(761K)	5.53	2.54	12.06	
	SWITCHCRAFT original or equivalent	P2C(S760K)	5.53	2.03	9.52	
Current rating: 7.5A max.	P2D(760K)	5.53	2.54	9.52		
Min. Pin S	Type No.	A	В	С		
			OD	ID	L	
I A	-C-	P3A	2.35	0.7	11.0	Available
		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.	A OD	B ID	C L	D Center Pin	Quick Adapter Accessory	
-A- . C .	P4A	5.5	3.4	11.0	1.0		
	P4B	6.5	4.4	11.0	1.4	None	
	P4C	7.4		11.0	0.6	110110	
Current rating: 7.5A max. EIAJ equivalent	P40		5.1		0.0		
Min. DIN 3 Pin with Lock (male)	Type No.	Pin Assignment PIN No. Output					
	R6B	1	+Vo			A ! - - -	
		2		-Vo		Available	
Current rating: 7.5A max. KYCON KPPX-3P equivalent		3		+Vo			
Min. DIN 4 Pin with Lock (male)	Type No.	Pin Assignment					
Will. DIN 4 Fill Willi Lock (Illale)	1) po 110.	PIN No).	Output		Available	
23 mm (m sp. 2)	R7B	1		+Vo			
		2		-Vo			
KYCON KPPX-4P equivalent		3		-Vo			
Current rating: 7.5A max.		4 +Vo					
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment PIN No. Output					
	R7BF	1 PIN NO).	Output +Vo		None	
23		2		-Vo			
23 14 [100000]		3					
Current rating: 7.5A max. KYCON KPJX-CM-4S equivalent		4		+Vo			
DINIE Din (mada)	Type No.	Pin Assignment					
DIN 5 Pin (male)		PIN No			t		
	R1B	1		-Vo			
		2		-Vo		Available	
		3		+Vo			
		4		-Vo			
Current rating: 7.5A max.		5): A:	+Vo			
Stripped and tinned leads	Type No.	Pin Assignment					
	· · ·	PIN No).	Output			
L (red) 1 2 4 (block)	by customer	1 +Vo			None		
L1 (black) Length of Land L1 by request (MW's standard length, L: 25 mm, L1: 5 mm)		2		-Vo			

■ Installation Manual

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