

















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 : https://www.meanwell.com/upload/pdf/DC plug.pdf

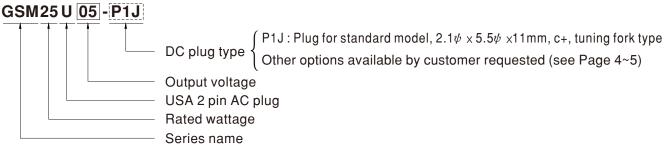
 Output
- · 3 years warranty

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





GSM25U series

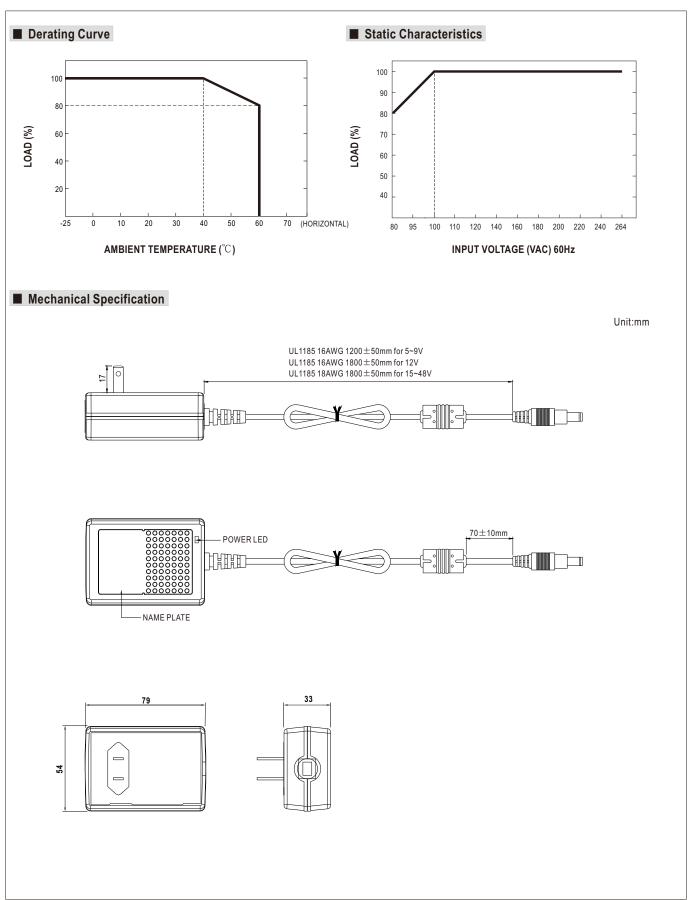
SPECIFICATION

ORDER NO)	COMPELIAE DA I	COMPELIAT DAT	CCM25U00 D4	ICCMSELIAS DA	ICCMOEUAE DA	ICCMOELIAO DA	ICCMSELISA DA	ICCMOELLAG DA	
ONDERNO									GSM25U46-P1	
	SAFETY MODEL NO.							1 1 1 1 1		
				-			-		48V	
	RATED CURRENT								0.52A	
	CURRENT RANGE	-						-	0 ~ 0.52A	
OUTPUT	RATED POWER (max.)	Note.2 5V		25W						
OUIPUI	, ,				1 '			<u> </u>	240mVp-p	
	VOLTAGE TOLERANCE Note.4	RRENT 4A 2.93A 2.77A 2.08A 1.66A 1.38A 7 RANGE 0 ~ 4A 0 ~ 2.93A 0 ~ 2.77A 0 ~ 2.08A 0 ~ 1.66A 0 ~ 1.38A 0 RANGE 0 ~ 4A 0 ~ 2.93A 0 ~ 2.77A 0 ~ 2.08A 0 ~ 1.66A 0 ~ 1.38A 0 WER (max.) 20W 22W 25W 25W 25W 25W 25W 25W 25W 25W 25	±2.0%	±2.0%						
	LINE REGULATION Note.5						18V 24V 1.38A 1.04A 0 ~ 1.38A 0 ~ 1.04A 25W 25W 150mVp-p 180mVp-p ±3.0% ±2.0% ±1.0% ±1.0% ±3.0% ±2.0%		±1.0%	
	LOAD REGULATION						±3.0%	±2.0%	±2.0%	
		,				ull load		### STAND ST		
	HOLD UP TIME (Typ.)									
	VOLTAGE RANGE Note.7									
	FREQUENCY RANGE	47 ~ 63Hz						1		
INPUT	EFFICIENCY (Typ.)	80%	83%	84%	86%	87%	87%	87%	88%	
	AC CURRENT (Typ.)	0.7A / 115VAC	0.35A/2	30VAC			18V			
	INRUSH CURRENT (Typ.)	55A / 230VAC	30A / 115	VAC						
	LEAKAGE CURRENT(max.)	Touch current < 50 \(\mu A \) /264 VAC								
	OVERLOAD	105 ~ 170% ra	ated output pov	ver				5U18 GSM25U24 24V 1.04A 38A 0 ~ 1.04A 25W //p-p 180mVp-p % ±2.0% ±1.0% % ±2.0% 87% 87% Test Level / Note Class B Class B Class B		
PROTECTION		Protection type: Hiccup mode, recovers automatically after fault condition is removed								
		5.25 ~ 7.5V	7.88 ~ 10.5V	9.45 ~ 13V	12.6 ~ 17.2V	15.75 ~ 20.25V	18.9 ~ 25.2V	25.2 ~ 32.4V	50.4 ~ 64.8V	
	OVER VOLTAGE									
	WORKING TEMP.	-25 ~ +60 °C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20% ~ 90% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 \sim +85 $^{\circ}$ C , 10 \sim 95% RH non-condensing								
	TEMP. COEFFICIENT	±0.03% / °C (0~40°C)								
	VIBRATION									
	SAFETY STANDARDS	ANSI/AAMI E	S60601-1, ES6	0601-1-11, EA	C TP TC 004 ap	proved		18 GSM25U24 24V 1.04A 0 ~ 1.04A 25W p 180mVp-p ±2.0% ±1.0% 25.2 ~ 32.4V 87% Test Level / Note Class B Class B Class B		
INPUT	ISOLATION LEVEL	Primary-Secondary: 2xMOPP								
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC								
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH								
		Parameter Standard Test Level / Note								
	EMC EMISSION	Conducted emis	sion	FCC PART 15	5 / CISPR22		Cla	ss B		
		Radiated emissi	ion	FCC PART 15	5 / CISPR22		Cla	ss B		
	MTBF	796.7K hrs mii	n. MIL-HDBK-2							
OTHERS	DIMENSION									
	PACKING	,	,	ON				GSM25U24 24V 1.04A 0 ~ 1.04A 25W 180mVp-p ±2.0% ±1.0% ±2.0% 87% 87% st Level / Note ass B ass B		
	PLUG	See page 4~5	: Other type av	ailable by cust	omer requested					
CONNECTOR	CABLE	See page 4~5; Other type available by customer requested								
NOTE	DC voltage: The output volta Ripple & noise are measured Tolerance: includes set up to Line regulation is measured Length of set up time is mea Derating may be needed und The power supply is conside	crified at 115VAC input, rated load, 25°C 70% RH ambient. It voltage set at point measure by plug terminal & 50% load. asured at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor. It up tolerance, line regulation, load regulation. It up tolerance, line regulation. It up tolerance, line regulation, load regulation. It up tolerance, line regulation. It up tolerance, line regulation, load regulation. It up tolerance, line regulation. It up tolerance,								

25W AC-DC Reliable Green Medical Adaptor

File Name:GSM25U-SPEC 2020-04-30

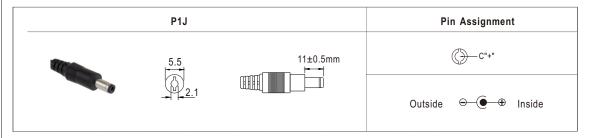






■ DC output plug

O Standard plug: P1J



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 and online selection guide: https://www.meanwell.com/upload/pdf/DC_plug.pdf

Example quick adapter accessory:



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

			Α	В	С	Quick Adapter	
Tuning Fo	Type No.	OD	ID	ı	Quick Adapter Accessory		
	, C ,	P1I	5.5	2.1	9.5	7100033019	
	(Straight)						
		P1L	5.5	2.5	9.5		
A B		P1M	5.5	2.5	11.0	Available	
В	(Right-angled)	P1IR	5.5	2.1	9.5	(Current rating: 7.5A max.)	
		P1JR	5.5	2.1	11.0	(,	
		P1LR	5.5	2.5	9.5		
		P1MR	5.5	2.5	11.0		
Parrol	Type No.	Α	В	С			
Barrel		OD	ID	L			
	(Straight) (Right-angled)	P2I	5.5	2.1	9.5		
		P2J	5.5	2.1	11.0		
		P2L	5.5	2.5	9.5	Mana	
I A			5.5	2.5	11.0	None	
A B		P2IR	5.5	2.1	9.5		
<u> → </u>		P2JR	5.5	2.1	11.0		
		P2LR	5.5	2.5	9.5		
		P2MR	5.5	2.5	11.0		
		A	В	С			
Lock	Type No.	OD	ID	Ĺ			
Δ.	Floating Locking C SWITCHCRAFT original or equivalent	P2S(S761K)	5.53	2.03	12.06	None	
		P2K(761K)	5.53	2.54	12.06		
B B		P2C(S760K)	5.53	2.03	9.52		
₩ 		P2D(760K)	5.53	2.54	9.52		

GSM25U series

		А		В	С	Quick Adapter	
Min. Pin Style	Type No.	OD	ID		L	Accessory	
A 1-C-1	P3A	2.35	0.7		11.0	A ! - - -	
	P3B	4.0		1.7	11.0	Available (Current rating: 5A max.)	
EIAJ equivalent	P3C	4.75	1.7 11.0		11.0	, a sa s	
Center Pin Style	Type No.	А	В	С	D		
Ochter i ili Otyle		OD	ID	L	Center Pin		
A C	P4A	5.5	3.4	11.0	1.0	Available (Current rating: 7.5A max	
	P4B	6.5	4.4	11.0	1.4	(our one runing. r. or timex.)	
ElAJ equivalent	P4C	7.4	5.1	11.0	0.6		
Min. DIN 3 Pin with Lock (male)	Type No	Pin Assignment					
Mill. Div 3 Fill with Lock (male)	Type No.	PIN No. Output			ut		
		1		+Vo		Available	
	R6B	2		-Vo +Vo		(Current rating: 7.5A max.)	
KYCON KPPX-3P equivalent		3					
	Tuna Na	Pin Assignment					
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No. Output					
	R7B	1		+Vo		Available (Current rating: 7.5A max.)	
		2		-Vo			
KYCON KPPX-4P equivalent		3		-Vo			
		4 +Vo					
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment					
,	R7BF		PIN No. Output 1 +Vo				
		2		-Vo		None	
2 3 [UUUUU] 1 4 [aanana]		3				l	
KYCON KPJX-CM-4S equivalent		4		+V0			
DINE Din (mala)	Type No	Pin Assignmer					
DIN 5 Pin (male)	Type No.	PIN No. Outp		Outpu	ıt		
		1		-Vo		Available (Current rating: 7.5A max.)	
	R1B Type No.	2		-Vo			
		3		+Vo		,	
		4		-Vo			
		5 +Vo Pin Assignment					
Stripped and tinned leads		PIN No. Output					
L (red) 1 2	by customer	1		+Vo		None	
L1 (black) Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm)		2		-Vo			

■ Installation Manual

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