



















Applications

Nebulizer

Inhaler

· Blood glucose meter

Blood pressure meter

· Portable medical device





Features

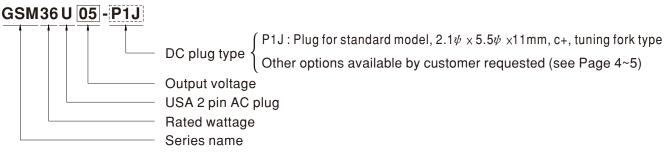
- 2 pole USA plug, Class II power unit
- Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1/-1-11
- Extremely low leakage current
- No load power consumption<0.1W
- Energy efficiency Level VI (except 5~9V for Level V)
- -25~+60°C wide range working temperature
- Protections: Short circuit / 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)
- 3 years warranty

Description

GSM36U is a highly reliable, 36W 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 ($2 \times MOPP$), having an ultra low leakage current ($<50 \mu A$), 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, GSM36U 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. GSM36U is approved with the international medical safety certificates.

Model Encoding

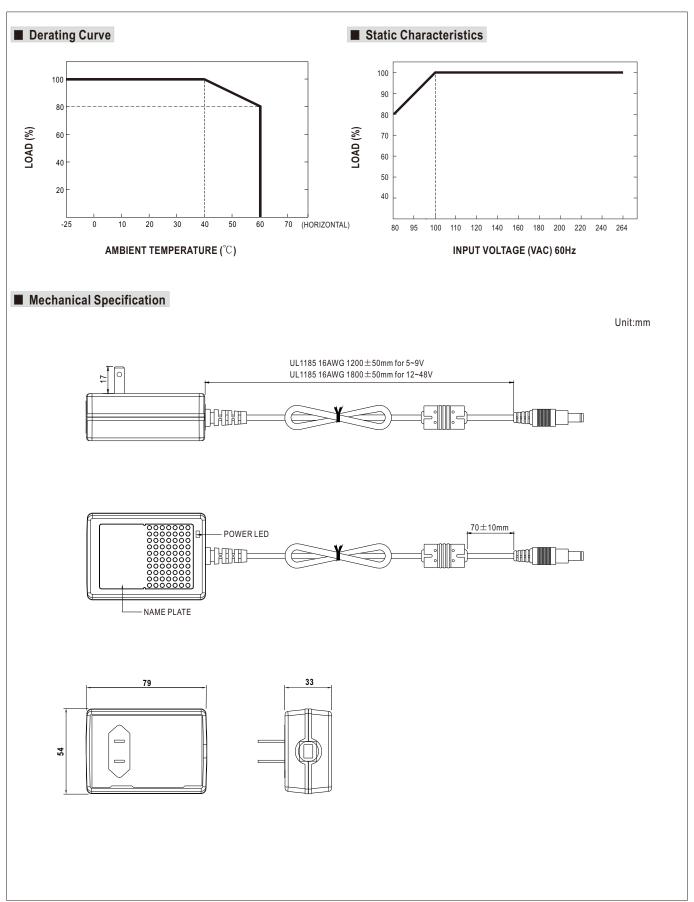




SPECIFICATION

ORDER NO) <u>.</u>	GSM36U05-P1J	GSM36U07-P1J	GSM36U09-P1J	GSM36U12-P1J	GSM36U15-P1J	GSM36U18-P1	J GSM36U24-P1	J GSM36U48-P1.		
	SAFETY MODEL NO.	GSM36U05	GSM36U07	GSM36U09	GSM36U12	GSM36U15	GSM36U18	GSM36U24	GSM36U48		
OUTDUT	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V		
	RATED CURRENT	4.5A	4.32A	4A	3A	2.4A	2A	1.5A	0.75A		
					0 ~ 3A	0 ~ 2.4A	0 ~ 2A	0 ~ 1.5A	0.75A 0 ~ 0.75A		
	CURRENT RANGE	0 ~ 4.5A	0 ~ 4.32A	0 ~ 4A	36W			36W			
	RATED POWER (max.)	22.5W 80mVp-p	32.4W	36W 80mVp-p	120mVp-p	36W 120mVp-p	36W 150mVp-p	180mVp-p	36W 240mVp-p		
	RIPPLE & NOISE (max.) Note.3		80mVp-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%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LOAD REGULATION	±6.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%		
	SETUP, RISE TIME Note.6	500ms, 30ms / 230VAC 1000ms, 30ms / 115VAC at full load									
HOLD UP TIME (Typ.) 16ms / 230VAC 10ms / 115VAC at full load											
	VOLTAGE RANGE Note.7	80 ~ 264VAC 113 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz	000/	0.40/	000/	070/	070/	070/	000/		
INPUT	EFFICIENCY (Typ.)	80%	83%	84%	86%	87%	87%	87%	88%		
	AC CURRENT (Typ.)	0.9A / 115VAC									
	INRUSH CURRENT (Typ.)	55A / 230VAC 30A / 115VAC									
	LEAKAGE CURRENT(max.)	Touch current < 50 \(mu A/264VAC\)									
	OVERLOAD	105 ~ 170% rated output power									
PROTECTION		Protection type: Hiccup mode, recovers automatically after fault condition is removed									
	OVER VOLTAGE	5.25 ~ 7.5V	7.88 ~ 10.5V			15.75 ~ 20.25V	18.9 ~ 25.2V	25.2 ~ 32.4V	50.4 ~ 64.8V		
		Protection type: Shut down o/p voltage, re-power on to recover									
	WORKING TEMP.	-25 ~ +60°C (Refer to "Derating Curve")									
ENVIRONMENT	WORKING HUMIDITY	20% ~ 90% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	The second secon									
	TEMP. COEFFICIENT	±0.03% / °C (0~40°C)									
	VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes										
	SAFETY STANDARDS	ANSI/AAMI ES60601-1, ES60601-1-11, EAC TP TC 004 approved									
CAFETY	ISOLATION LEVEL	Primary-Secondary: 2xMOPP									
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC									
(Note. 8)	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH									
		Parameter Standard						Test Level / Note			
	EMC EMISSION	Conducted emission FCC PART 15 / CISPR22 Class B									
		Radiated emission FCC PART 15 / CISPR22 Class B									
	MTBF	657.4K 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									
CONNECTOR	CABLE	See page 4~5; Other type available by customer requested									
NOTE	 DC voltage: The output volt Ripple & noise are measure Tolerance: includes set up t Line regulation is measured Length of set up time is me Derating may be needed un The power supply is consid 	fied at 115VAC input, rated load, 25°C 70% RH ambient. voltage set at point measure by plug terminal & 50% load. sured at 20MHz by using a 12" twisted pair terminated with a 0.1 \(\tilde{\mu} \) f capacitor. p tolerance, line regulation, load regulation. red from low line to high line at rated load. measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. I under low input voltage. Please check the derating curve for more details. sidered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the ance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." w.meanwell.com)									

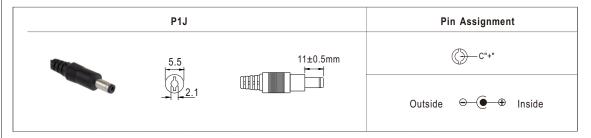






■ DC output plug

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)

Tuning Fork Style			Type No.	Α	В	С	Quick Adapter	
			Type No.	OD	ID	L	Accessory	
	A B	C -	P1I	5.5	2.1	9.5		
		(Straight) (Right-angled)	P1L	5.5	2.5	9.5		
Comment of the Commen			P1M	5.5	2.5	11.0	Available	
			P1IR	5.5	2.1	9.5	(Current rating: 7.5A max.)	
			P1JR	5.5	2.1	11.0	(Gurrentrating, 7.5Amax.)	
			P1LR	5.5	2.5	9.5		
		(Right-angled)	P1MR	5.5	2.5	11.0		
Barrel Style			Type No.	Α	В	С		
				OD	ID	L		
	A B	(Straight)	P2I	5.5	2.1	9.5		
			P2J	5.5	2.1	11.0		
			P2L	5.5	2.5	9.5	None	
			P2M	5.5	2.5	11.0	None	
			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.	А	ВС			
			Type No.	OD	ID	L		
	A	Floating Locking C	P2S(S761K)	5.53	2.03	12.06	None	
			P2K(761K)	5.53	2.54	12.06	INOILE	
00			P2C(S760K)	5.53	2.03	9.52		
		SWITCHCRAFT original or equivalent	P2D(760K)	5.53	2.54	9.52		

GSM36U series

Min. Pin Style		Α		В	С	Quick Adapter	
	Type No.	OD		ID	L	Accessory	
A 1-C-1	P3A	2.35	2.35 0.7 11.0 4.0 1.7 11.0		11.0	A	
	P3B	4.0			11.0	Available (Current rating: 5A max.)	
EIAJ equivalent	P3C	4.75			11.0	(ourient rating, 5Amax.)	
Contar Din Style	Type No.	А	В	С	D		
Center Pin Style		OD	ID	L	Center Pin		
<u>A</u>	P4A	5.5	3.4	11.0	1.0	Available	
	P4B	6.5	4.4	11.0	1.4	(Current rating: 7.5A max.)	
EIAJ equivalent	P4C	7.4	5.1	11.0	0.6		
·		Pin Assignment					
Min. DIN 3 Pin with Lock (male)	Type No.	PIN No. Output					
		1	+Vo)	Available	
	R6B	2		-Vo +Vo		(Current rating: 7.5A max.)	
KYCON KPPX-3P equivalent		3					
		Pin Assignment					
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No. Output					
	R7B	1	•	+V0		Available (Current rating: 7.5A max.)	
		2		-Vo -Vo +Vo			
KYCON KPPX-4P equivalent		3					
KTCON KPPA-4P equivalent		4					
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment					
Will. Bill 41 ill With Lock (Telliale)		PIN No	· · · · · · · · · · · · · · · · · · ·			None	
	R7BF	1	+Vo				
		3		-Vo			
KYCON KPJX-CM-4S equivalent		4		-Vo			
KTOOK IN DA OM 40 OQUIVAIONE		4 +Vo Pin Assignment					
DIN 5 Pin (male)	Type No.	PIN No. Outpu					
		1	-Vo				
	R1B	2		-Vo +Vo -Vo +Vo		Available (Current rating: 7.5A max.)	
		3					
660		4					
		5					
Stripped and tinned leads	Type No.	Pin Assignment					
Ottipped and tillied leads	Type NO.	PIN No).	Output		None	
L (red)	by customer	1		+Vo			
L1 (black)				-Vo			
Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm)		2					

■ Installation Manual

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