





















Features

- · Ultra slim, compact size
- · Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1/ES60601-1-11
- Extremely Low leakage current
- · 2 pole USA plug, Class

 power unit
- No load power consumption <0.15W
- Energy efficiency Level VI (except 5~9V for Level V)
- -30~+70°C wide range working temperature
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- 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

Applications

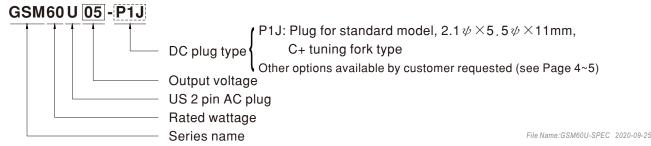
- · Blood glucose meter
- · Blood pressure meter
- Nebulizer
- Inhaler
- Portable medical device
- Sleep apnea devices

Description

GSM60U is a 60W ultra slim wall-mounted style single-output green medical adaptor series, which is compact and convenient for carry. GSM60U is a class Π power unit (no FG) equipped with the standard 2-Pin U.S. plug, accepting the input range from 80VAC to 264VAC. The whole series provides different models with output voltages ranging between 5VDC and 48VDC that it can satisfy the demands for various types of medical electronic devices. The circuitry design meets the international medical standards (2*MOPP), having an ultra low leakage current (<100µA), fitting the medical devices in direct electrical contact with the patients.

With the efficiency up to 90% and the extremely low no-load power consumption below 0.15W, GSM60U is compliant with the latest U.S. energy regulation EISA 2007/DoE(Level VI). The supreme feature allows the adaptor to save the energy when it is under either the operating mode or the standby mode. The entire series is approved for international safety regulations; moreover, it adopts the 94V-0 flame retardant plastic case that it can effectively prevent users from electric hazards.

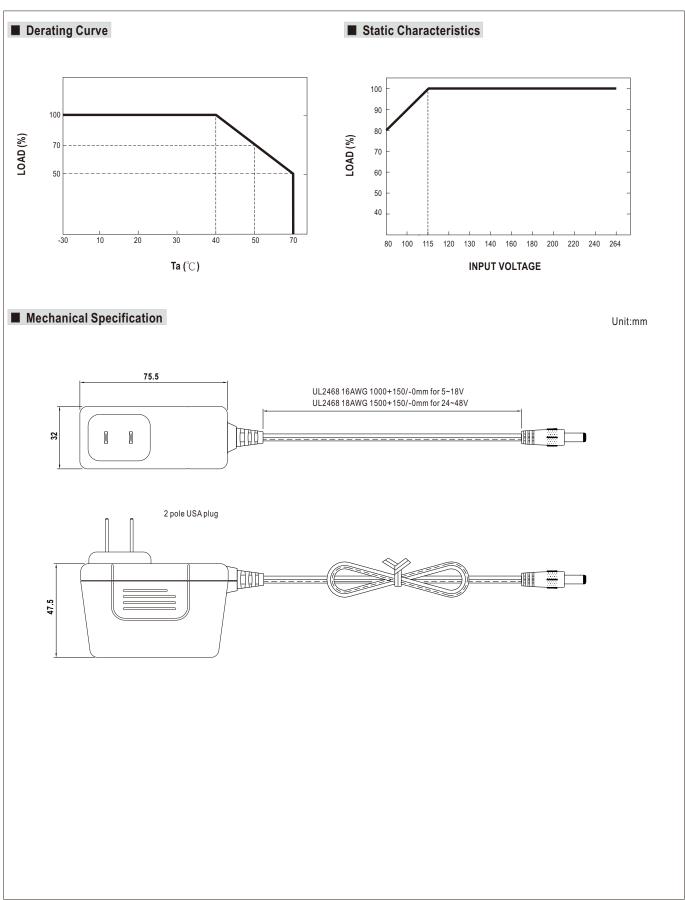
Model Encoding



SPECIFICATION

ORDER NO.		GSM60U05-P1J	GSM60U07-P1J	GSM60U09-P	1J GSM60U12-P1J	GSM60U15-P	1J GSM60U18-P1J	GSM60U24-P1	J GSM60U48-P1J	
	SAFETY MODEL NO.	GSM60U05	GSM60U07	GSM60U09	GSM60U12	GSM60U15	GSM60U18	GSM60U24	GSM60U48	
OUTPUT	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V	
	RATED CURRENT	6A	6A	5.5A	4.5A	4A	3.33A	2.5A	1.25A	
	CURRENT RANGE	0 ~ 6A	0 ~ 6A	0 ~ 5.5A	0 ~ 4.5A	0 ~ 4A	0 ~ 3.33A	0 ~ 2.5A	0 ~ 1.25A	
	RATED POWER (max.)	30W	45W	50W	54W	60W	60W	60W	60W	
	RIPPLE & NOISE (max.) Note.3	100mVp-p	100mVp-p	100mVp-p	100mVp-p	120mVp-p	120mVp-p	120mVp-p	150mVp-p	
	VOLTAGE TOLERANCE Note.4		±5.0%	±5.0%	±5.0%	±5.0%			±3.0%	
		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			±1.0%	
		±5.0%	±5.0%	±5.0%	±3.0%	±3.0%			±2.0%	
	SETUP, RISE, HOLD UP TIME				100ms, 10ms/115					
		80 ~ 264VAC	113 ~ 370VD		1001110, 101110/1110	7710 01100	<u> </u>			
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY (Typ.)	80%	85%	87%	88%	88%	88%	88%	90%	
INPUT	AC CURRENT	1.5A / 115VAC	0.8A / 230V		0070	0070	0070	0070	0070	
OUTPUT INPUT PROTECTION SAFETY & EMC (Note. 8) OTHERS CONNECTOR	INRUSH CURRENT (max.)	Cold start 50A/115VAC 100A/230VAC								
	LEAKAGE CURRENT(max.)									
	ZZ/IIO (OZ OO) (IIIOXI)	Touch current < 100µA/264VAC								
PROTECTION	OVERLOAD	105 ~ 160% rated output power								
		Protection type: Hiccup mode, recovers automatically after fault condition is removed 110 ~ 140% rated output voltage								
	OVER VOLTAGE	110 ~ 140% rated output voltage Protection type: Clamp by zener diode, output short								
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20% ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-30 ~ +85°C, 10 ~ 95% RH non-condensing								
	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							ved		
	ISOLATION LEVEL	Pimary - Secondary: 2 x MOPP								
	WITHSTAND VOLTAGE	I/P-O/P:5656VDC								
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH								
I	ioo Extron (Colo in tito)	Parameter Standard Test Level / Note								
OUTPUT INPUT PROTECTION : ENVIRONMENT SAFETY & EMC (Note. 8) OTHERS : CONNECTOR :	EMC EMISSION	Conducted emi	ssion		CC PART 18	Class B				
		Radiated emiss								
	LIFE		load 40°C, 8hou				Test Level / Note Class B Clas			
-	MTBF	400Khrs min. MIL-HDBK-217F(25°C)								
OTHERS	DIMENSION	75.5*32*47.5mm (L*W*H)								
	PACKING	200g; 60pcs / 13kg / CARTON								
	PLUG	See page 4-5; other type available by customer requested								
CONNECTOR	CABLE	See page 4-5; other type available by customer requested								
NOTE	2.DC voltage: The output volta 3.Ripple & noise are measure 4.Tolerance: includes set up to 5.Line regulation is measured 6.Load regulation is measured 7.Derating may be needed un 8.The power supply is conside EMC directives. For guidanc (as available on http://www.	d at 230VAC input, rated load, 25°C 70% RH ambient. Itage set at point measure by plug terminal & 50% load. red at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor. tolerance, line regulation, load regulation. d from low line to high line at rated load. ed from 10% to 100% rated load. inder low input voltage. Please check the derating curve for more details. dered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the noe on how to perform these EMC tests, please refer to "EMI testing of component power supplies." //meanwell.com/ r: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx								





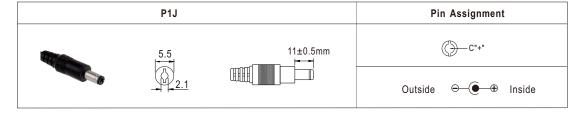


60W AC-DC Reliable Green Slim Wall-mounted Medical Adaptor GSM60U series

■ 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 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 Fo	Type No.	А	В	С	Quick Adapter	
Tulling Le	Type No.	OD	ID	L	Accessory	
	C -	P1I	5.5	2.1	9.5	
	(Straight)	P1L	5.5	2.5	9.5	
I-A-		P1M	5.5	2.5	11.0	Aveilable
	(Right-angled)	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	
		P1MR	5.5	2.5	11.0	
Barrel	Type No.	Α	В	С		
Barron	Otylo	туротто.	OD	ID	L	
	, C,	P2I	5.5	2.1	9.5	
		P2J	5.5	2.1	11.0	
Δ	(Straight)	P2L	5.5	2.5	9.5	None
A D B		P2M	5.5	2.5	11.0	
<u> </u>		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	Type No.	Α	В	С		
LOOK		OD	ID	L		
. A .	Floating Locking C-	P2S(S761K)	5.53	2.03	12.06	None
A B		P2K(761K)	5.53	2.54	12.06	TTOTIO
<u>B</u>		P2C(S760K)	5.53	2.03	9.52	
	SWITCHCRAFT original or equivalent	P2D(760K)	5.53	2.54	9.52	
Min. Pin	Type No.	Α	В	С		
IVIIII. I III	1,700.10.	OD	ID	L		
<u>, A.</u>	C.	P3A	2.35	0.7	11.0	Available
A B		P3B	4.0	1.7	11.0	(Current rating: 5A max.)
→	EIAJ equivalent	P3C	4.75	1.7	11.0	



60W AC-DC Reliable Green Slim Wall-mounted Medical Adaptor GSM60U series

Center Pin Style	Type No.	A	В	С	D	Quick Adapter Accessory	
,		OD	ID	L	Center Pin	Accessory	
A C	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		
Min. DIN 3 Pin with Lock (male)	Type No.	Pin Assignment					
Willi. Dilv 31 ill with Lock (male)		PIN No	o.	Output		Available	
	R6B	1		+Vo			
		2		-Vo		(Current rating: 7.5A max.)	
KYCON KPPX-3P equivalent		3		+Vo			
Min DIN 4 Din with Look (male)	Type No.	Pin Assignment					
Min. DIN 4 Pin with Lock (male)	туретчо.	PIN No. Outp		Outpu	t		
	R7B	1		+Vo		Available (Current rating: 7.5A max.)	
2 3 [IIII] 中		2		-Vo			
KYCON KPPX-4P equivalent		3		-Vo			
TOOM NET X-41 Equivalent		4		+Vo			
Stripped and tinned leads	Type No.	Pin Assignment					
Stripped and tillled leads	Type No.	PIN No	o	Output		None	
1	by customer	1 (Ribbed	d)	+Vo			
L1 Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)	by customer	2 (Letter	r)	-Vo			

■ Installation Manual

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