

























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

GTIN CODE

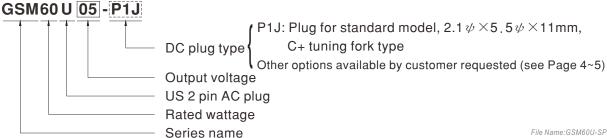
MW Search: https://www.meanwell.com/serviceGTIN.aspx

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 $\, {\mathbb I} \,$ 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

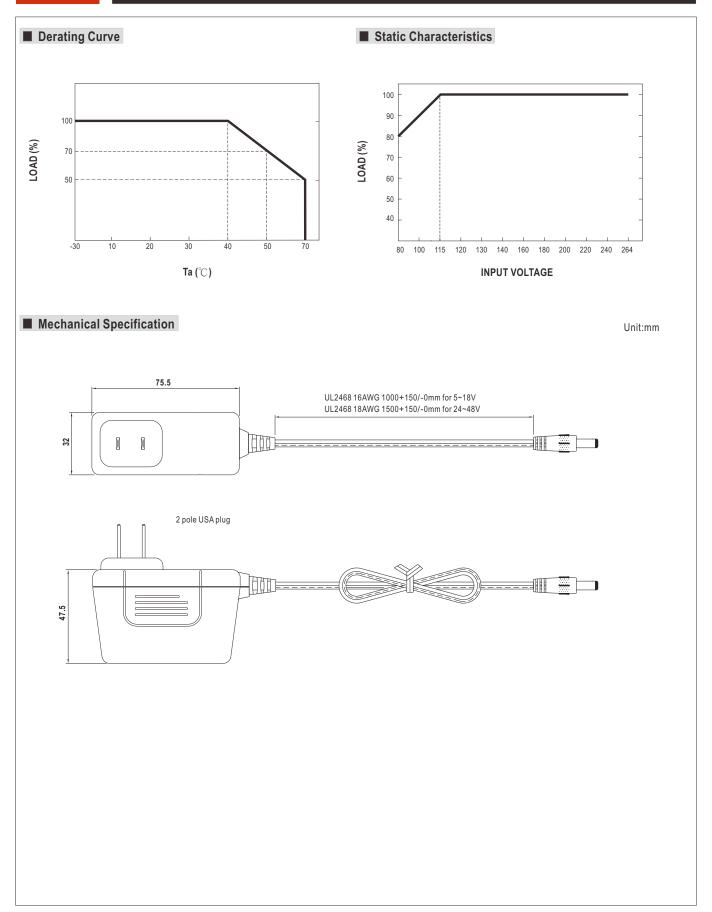




60W AC-DC Reliable Green Slim Wall-mounted Medical Adaptor GSM60U series

SPECIFICATION

ORDER NO.		GSM60U05-P1J	GSM60U07-P1J	GSM60U09-P1	J GSM60U12-P1J	GSM60U15-P1	GSM60U18-P1J	GSM60U24-P1J	GSM60U48-P1J	
	SAFETY MODEL NO.	GSM60U05	GSM60U07	GSM60U09	GSM60U12	GSM60U15	GSM60U18	GSM60U24	GSM60U48	
	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	
OUTPUT	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%	±5.0%	±3.0%	±3.0%	±3.0%	
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION Note.6	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	
INPUT	SETUP, RISE, HOLD UP TIME	1000ms, 100ms	000ms, 100ms, 10ms/230VAC 1000ms, 10ms/115VAC at full load							
	VOLTAGE RANGE Note.7	80 ~ 264VAC 113 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
INPLIT	EFFICIENCY (Typ.)	80%	85%	87%	88%	88%	88%	88%	90%	
1141 01	AC CURRENT	1.5A / 115VAC	1.5A / 115VAC 0.8A / 230VAC							
OUTPUT INPUT PROTECTION ENVIRONMENT SAFETY & EMC (Note. 8)	INRUSH CURRENT (max.)	Cold start 50A	/ 115VAC 1	00A / 230VAC						
	LEAKAGE CURRENT(max.)	Touch current <	100µA/264VAC					S GSM60U24 24V 2.5A 0 ~ 2.5A 60W 120mVp-p ±3.0% ±1.0% ±2.0% 88% 88%		
PROTECTION - ENVIRONMENT SAFETY & EMC (Note. 8)	OVERLOAD	105 ~ 160% rated output power								
		Protection type: Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	110 ~ 140% rated output voltage								
		Protection type : Clamp by zener diode, output short								
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20% ~ 90% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-30 ~ +85°C, 10 ~ 95% RH non-condensing								
ı	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 40°C)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
1	SAFETY STANDARDS	ANSI/ AAMI ES60601-1/ES60601-1-11(3.1 version), CAN/CSA-C22 NO. 60601-1 3 rd edition approved								
	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								
		Parameter								
OUTPUT INPUT PROTECTION - ENVIRONMENT SAFETY & EMC (Note. 8) OTHERS - CONNECTOR -	EMC EMISSION	Conducted emis								
1		Radiated emiss			M60U09 GSM60U12 GSM60U15 GSM60U18 GSM6 12V					
	LIFE	3 years : 100% load 40°C, 8hours / day								
OTHERS	MTBF	400Khrs min. MIL-HDBK-217F(25°C)								
ı	DIMENSION	75.5*32*47.5mm (L*W*H)								
	PACKING PLUG	200g; 60pcs / 13kg / CARTON								
CONNECTOR	CABLE	See page 4~5; other type available by customer requested See page 4~5; other type available by customer requested								
NOTE	1.All parameters are specified 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 ur 8.The power supply is conside EMC directives. For guidance (as available on http://www.	at 230VAC input, rated load, 25°C 70% RH ambient. ge set at point measure by plug terminal & 50% load. d at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor. blerance, line regulation, load regulation. from low line to high line at rated load. If rom 10% to 100% rated load. der low input voltage. Please check the derating curve for more details. gred as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the e on how to perform these EMC tests, please refer to "EMI testing of component power supplies." neanwell.com) For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx								
	roddot Elability Disoidiffier	File Name: GSM60U-SPEC 2022-04-11								



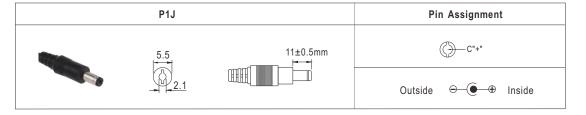


60W AC-DC Reliable Green Slim Wall-mounted Medical Adaptor GSM60U series

■ 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	Type No.	А	В	С	Quick Adapter	
Tuning F	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	A ! - - -
	C	P1IR	5.5	2.1	9.5	Available
→ T+□		P1JR	5.5	2.1	11.0	(Current rating: 7.5A max.)
	(Bisht seeds t)	P1LR	5.5	2.5	9.5	
	(Right-angled)	P1MR	5.5	2.5	11.0	
Barro	Type No.	Α	В	С		
Dan	турстчо.	OD	ID	L		
	, С ,	P2I	5.5	2.1	9.5	
		P2J	5.5	2.1	11.0	
^	(Straight)	P2L	5.5	2.5	9.5	None
A B		P2M	5.5	2.5	11.0	110110
В		P2IR	5.5	2.1	9.5	
-1 1-		P2JR	5.5	2.1	11.0	
	(5:14	P2LR	5.5	2.5	9.5	
	(Right-angled)	P2MR	5.5	2.5	11.0	
Lock	Type No.	Α	В	С		
Loci		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
B		P2C(S760K)	5.53	2.03	9.52	
	SWITCHCRAFT original or equivalent	P2D(760K)	5.53	2.54	9.52	
Min. Pi	Type No.	A	В	С		
141111.1	1 9 0 1 1 0 .	OD	ID	L		
<u>.A.</u>	_	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.	А	В			Quick Adapter	
Ochter i in otyle	туре но.	OD	ID	L	Center Pin	Accessory	
A C	P4A	5.5	3.4	11.0	1.0	A - State	
	P4B	6.5	.5 4.4 1		1.4	Available (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. DIN 31 III With Lock (Illaie)		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 (mode)	Type No.	Pin Assignment					
Min. DIN 4 Pin with Lock (male)	туретчо.	PIN No. Outpu		t			
Tonn The		1		+Vo		Available (Current rating: 7.5A max.)	
2 3 FIIII P 3 4	R7B	2		-Vo			
KYCON KPPX-4P equivalent	IVI D	3		-Vo			
TOOM NET X-41 Equivalent		4		+Vo			
Stripped and tinned leads	Type No.	F	Pin Assignment				
Stripped and tillled leads	туре по.	PIN No	o	Output		None	
1 2	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)		2 (Letter	۲)	-Vo			

■ Installation Manual

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