

























Features

- 3 pole AC inlet IEC320-C14, Class I power unit
- · Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1 and IEC/BS EN/EN60601-1
- Extremely low leakage current
- No load power consumption<0.15W
- Energy efficiency level VI and meet CoC Version 5 (Except 5~9V for Level V)
- -30~+70°C wide range working temperature
- · Protections: Short circuit / Overload / Over voltage/ Over temperature
- LED indicator for power on
- · Lifetime > 105 K hours
- 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

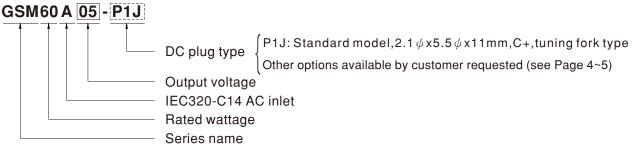
- Mobile clinical workstation
- Oral irrigator
- Portable hemodialysis machine
- · Breath Machine
- Medical computer monitor

Description

GSM60A is a highly reliable, 60W desktop style single-output green medical adaptor series. This product is a class I power unit(with FG), equipped with a standard IEC320-C14 AC inlet and adopting the input range from 80VAC to 264VAC. The entire series supplies different models with output voltages between 5VDC and 48VDC that can satisfy the demands for various types of medical electrical devices. The circuitry design meets the international medical standards (2*MOPP), having an ultra low leakage current (<100\mu A), fitting the medical devices in direct electrical contact with the patients.

With the efficiency up to 91% and the extremely low no-load power consumption below 0.15W, GSM60A is compliant with USA EISA 2007/DoE, Canada NRCan, Australia and New Zealand MEPS, EU ErP, and meet Code of Conduct(CoC) Version 5. 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. GSM60A is certified for the international medical safety regulations.

Model Encoding

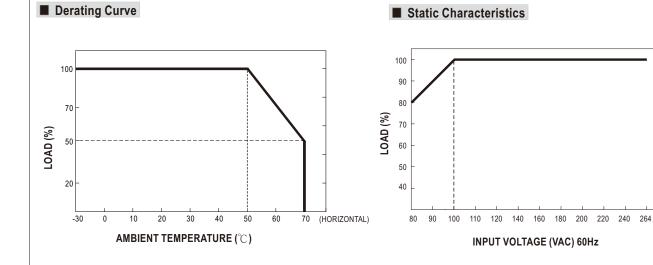




SPECIFICATION

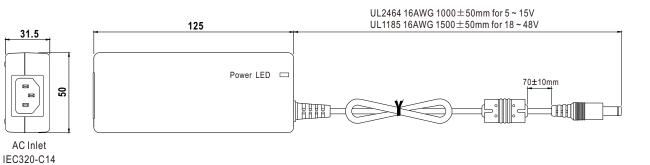
ORDER NO.		GSM60A05-P1J	GSM60A07-P1J	GSM60A09-P1	GSM60A12-P1J	GSM60A15-P1J	GSM60A18-P1J	GSM60A24-P1J	GSM60A48-P		
	SAFETY MODEL NO.	GSM60A05	GSM60A07	GSM60A09	GSM60A12	GSM60A15	GSM60A18	GSM60A24	GSM60A48		
	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V		
	RATED CURRENT	6A	6A	6A	5A	4A	3.33A	2.5A	1.25A		
	CURRENT RANGE	0.1 ~ 6A	0.1 ~ 6A	0.1 ~ 6A	0.1 ~ 5A	0.1 ~ 4A	0.1 ~ 3.33A	0.1 ~ 2.5A	0.1 ~ 1.25A		
	RATED POWER (max.)	30W	45W	54W	60W	60W	60W	60W	60W		
OUTPUT	RIPPLE & NOISE (max.) Note.3		80mVp-p	100mVp-p	100mVp-p	100mVp-p	120mVp-p	150mVp-p	240mVp-p		
	VOLTAGE TOLERANCE Note.4		±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±3.0%	±2.5%		
				-		1 111					
		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LOAD REGULATION	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±3.0%	±2.5%		
	SETUP, RISE TIME Note.6	1000ms, 30ms / 230VAC 1500ms, 30ms / 115VAC at full load									
	HOLD UP TIME (Typ.)	50ms / 230VAC 18ms / 115VAC at full load									
	VOLTAGE RANGE Note.7	80 ~ 264VAC									
	FREQUENCY RANGE	47 ~ 63Hz									
INPUT	EFFICIENCY (Typ.)	81.5%	86%	87.5%	88%	88.5%	89%	90.5%	91.5%		
INPUI	AC CURRENT (Typ.)	1.4A / 115VAC	1A / 230VAC								
	INRUSH CURRENT (Typ.)	Cold start 30A	old start 30A/115VAC 60A / 230VAC								
	LEAKAGE CURRENT(max.)	Earth leakage current < 100μ A/264VAC , Touch current < 100μ A/264VAC									
	OVERLOAD	105 ~ 160% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION		5.2 ~ 7.0V	•					25.2 20.41/	E0 4 04 0		
	OVER VOLTAGE		7.8 ~ 10.2V	9.4 ~ 12.2V	12.6 ~ 16.2V	15.7 ~ 20.3V	18.9 ~ 24.3V	25.2 ~ 32.4V	50.4 ~ 64.8\		
		71	·	0 , 1	wer on to recove						
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover									
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20% ~ 90% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +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									
	OPERATING ALTITUDE Note.8										
	SAFETY STANDARDS										
		IEC60601-1, TUV BS EN/EN60601-1, ANSI/AAMI ES60601-1(3.1 version), CAN/CSA-C22.2 No. 60601-1:14 - Edition 3, EAC TP TC 004 approved Primary-Secondary: 2xMOPP, Primary-Earth:1xMOPP									
	ISOLATION LEVEL										
	WITHSTAND VOLTAGE		I/P-FG:2KVA								
	ISOLATION RESISTANCE		100M Ohms / 50								
	EMC EMISSION	Parameter		Standa				rel / Note			
		Conducted emission BS EN/EN55011 (CISPR11), FCC PART 15 / CISPR22, Class B									
		Conducted cities	331011		S-3(B)/NMB-3(B)			Class D			
		Radiated emission			BS EN/EN55011 (CISPR11), FCC PART 15 / CISPR22,			Class B			
					CAN ICES-3(B)/NMB-3(B)						
		Harmonic current BS EN/EN61000-3-2					Class A	Class A			
SAFETY &		Voltage flicker			EN61000-3-3						
EMC		BS EN/EN60601-1-2, BS EN/EN61204-3									
(Note 9)		Parameter Standard				Test Lev	Test Level / Note				
		ESD		BS EN/	BS EN/EN61000-4-2		Level 4,	Level 4, 15KV air ; Level 4, 8KV contact			
					Level 3,	Level 3, 10V/m(80MHz~2.7GHz)					
		RF field susceptibility		BS EN/	BS EN/EN61000-4-3			Table 9, 9~28V/m(385MHz~5.78GHz)			
		EFT bursts BS EN/E		EN61000-4-4		Level 3,	Level 3, 2KV				
	EMC IMMUNITY			BS EN/	EN61000-4-5	Level 3	Level 3, 1KV/Line-Line , 2KV/Line-FG				
		0 1 7			EN61000-4-6			Level 3, 10V			
							Level 4, 30A/m				
		Magnetic field immunity BS EN/EN61000-4-8				·					
		Voltage dip, interruption BS EN/EN61000-4-11						100% dip 1 periods, 30% dip 25 periods, 100% interruptions 250 periods			
OTHERS	MTBF	720K hrs min. MIL-HDBK-217F(25°C)									
	DIMENSION	125*50*31.5mm (L*W*H)									
	PACKING	0.32Kg; 40pcs/ 13.8Kg/1.04CUFT									
	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 voltary in the property of the pro	d at 230VAC input, rated load, 25°C 70% RH ambient. tage set at point measure by plug terminal & 50% load. ed at 20MHz by using a 12" twisted pair terminated with a 0.1 μf & 47 μf capacitor. tolerance, line regulation, load regulation. d from low line to high line at rated load. easured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. Inder low input voltages. Pleas check the derating curve for more details. Iterating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500f lered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the on how to perform these EMC tests, please refer to "EMI testing of component power supplies." well.com) : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx									





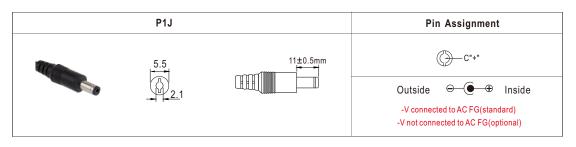
■ Mechanical Specification

Case No. GS60A Unit:mm



■ 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 I		Accessory		
	- C	P1I	5.5		2.1	9.5	Accessory	
		P1L				9.5	Available (Current rating: 7.5A max.)	
			5.5	_	2.5			
I A	(Straight)	P1M	5.5		2.5	11.0		
₩ в	(Right-angled)	P1IR	5.5	_	2.1	9.5		
		P1JR	5.5		2.1	11.0		
		P1LR	5.5	_	2.5	9.5		
	(**************************************	P1MR	5.5		2.5	11.0		
Barrel	Type No.	Α		В	С			
		OD		ID	L			
	_ C_	P2I	5.5		2.1	9.5		
		P2J	5.5		2.1	11.0		
Δ	-~-	P2L	5.5		2.5	9.5	None	
A B	(Straight)	P2M	5.5	_	2.5	11.0		
В	(Right-angled)	P2IR	5.5		2.1	9.5		
		P2JR	5.5		2.1	11.0		
		P2LR	5.5		2.5	9.5		
		P2MR	5.5		2.5	11.0		
					В	С		
Lock S	Type No.	OD		ID	L			
Α.	Floating Locking C-	P2S(S761K)	5.53		2.03 12.06		None	
		P2K(761K)	5.53		2.54	12.06	None	
<u>B</u>		P2C(S760K)	5.53		2.03	9.52		
	SWITCHCRAFT original or equivalent	P2D(760K)	5.53	- 2	2.54 9.52			
Min Din G	Min. Pin Style				В			
IVIIII. PIII 3	Type No.	OD		ID	L			
. A.	 C 	P3A	2.35		0.7	11.0	Available (Current rating: 5A max.)	
B B		P3B	4.0		1.7	11.0		
	EIAJ equivalent	P3C	4.75		1.7	11.0		
Center P	Type No.	Α	В	С	D			
Center F		OD	ID	L	Center Pin			
A	C	P4A	5.5	3.4	11.0	1.0	Available (Current rating: 7.5A max.)	
□ □ □ R		P4B	6.5	4.4	11.0	1.4	(our entraining. 1.5A max.)	
- - - - - - - - - -	EIAJ equivalent	P4C	7.4	5.1	11.0	0.6		



Min DIN 2 Din with Look (male)	Tuno No	Pin	Assignment	Quick Adapter	
Min. DIN 3 Pin with Lock (male)	Type No.	PIN No.	Output	Accessory	
	R6B	1	+Vo		
		2	-Vo	Available (Current rating: 7.5A max.)	
KYCON KPPX-3P equivalent		3	+Vo		
Mire DINI 4 Direccitle Leady (reads)	Type No.	Pin Assignment			
Min. DIN 4 Pin with Lock (male)		PIN No.	Output		
	R7B	1	+Vo	Available	
		2	-Vo	(Current rating: 7.5A max.)	
KYCON KPPX-4P equivalent		3	-Vo		
KTOON KFFX-4F equivalent		4	+Vo		
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment			
Will. DIN 41 III With Lock (lenale)	турстто.	PIN No.	Output		
	R7BF	1	+Vo	None	
(SS) 2 3 [UUUUUU]		2	-Vo	·	
		3	-Vo		
KYCON KPJX-CM-4S equivalent		4	+Vo		
DIN 5 Pin (male)	Type No.	Pin Assignment			
Bill of ill (illulo)		PIN No.	Output		
	R1B	1	-Vo	Available	
		2	-Vo	(Current rating: 7.5A max.)	
		3	+Vo	-	
		4	-Vo		
		5	+Vo		
Stripped and tinned leads	Type No.	Pin Assignment			
Carppod and announced		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

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