

























Features

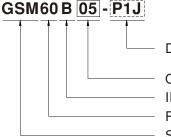
- · 2 pole AC inlet IEC320-C8, Class II power unit
- Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1/-1-11 and IEC/BS EN/EN60601-1/-1-11
- · Extremely low leakage current
- No load power consumption<0.1W
- Energy efficiency level VI and meet CoC Version 5 (Except 5~9V for Level V)
- -30~+70°C wide range working temperature
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · LED indicator for power on
- · Lifetime > 95 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

Description

GSM60B is a highly reliable, 60W desktop style single-output green medical adaptor series. This product is equipped with a 2-pin (no FG) standard IEC320-C8 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 medical electrical devices. The circuitry design meets the international medical standards (2*MOPP), having an ultra low leakage current (<50µA), fitting the medical devices in direct electrical contact with the patients.

With the efficiency up to 91.5% and the extremely low no-load power consumption below 0.1W, GSM60B 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, providing the double insulation that effectively prevents electrical shock. GSM60B is approved with the international medical safety certificates.

Model Encoding



P1J: Standard model, 2.1 ϕ x5.5 ϕ x11mm, C+, tuning fork type DC plug type Other options available by customer requested (see Page 4~5)

Output voltage

IEC320-C8 AC inlet

Rated wattage

Series name

Applications

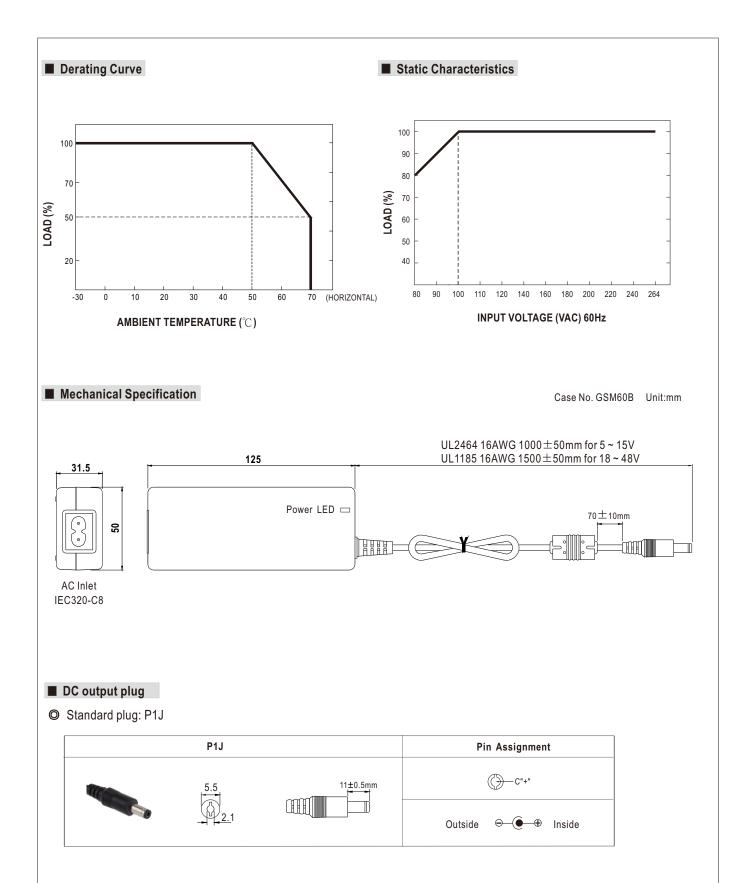
- · Mobile clinical workstation
- · Oral irrigator
- Portable hemodialysis machine
- Breath Machine
- Medical computer monitor



SPECIFICATION

ORDER NO.	i	GSM60B05-P1J	GSM60B07-P1J	GSM60B09-P1J	GSM60B12-P1J	GSM60B15-P1J	GSM60B18-P1J	GSM60B24-P1J	GSM60B48-P1		
	SAFETY MODEL NO.	GSM60B05	GSM60B07	GSM60B09	GSM60B12	GSM60B15	GSM60B18	GSM60B24	GSM60B48		
ОИТРИТ	DC VOLTAGE Note.2		7.5V	9V	12V	15V	18V	24V	48V		
	RATED CURRENT	6A	6A	6A	5A	4A			1.25A		
	CURRENT RANGE	0 ~ 6A	0 ~ 6A	0 ~ 6A	0 ~ 5A	0 ~ 4A		0 ~ 2.5A	0 ~ 1.25A		
						-					
	RATED POWER (max.)	30W	45W	54W	60W	60W			60W		
	RIPPLE & NOISE (max.) Note.3		80mVp-p	100mVp-p	100mVp-p	100mVp-p		150mVp-p	200mVp-p		
	VOLTAGE TOLERANCE Note.4		±5.0%	±5.0%	±3.0%	±3.0%		±3.0%	±2.5%		
	LINE REGULATION Note.5	±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	1500ms, 30ms / 230VAC 1500ms, 30ms / 115VAC at full load								
	HOLD UP TIME (Typ.)	50ms / 230VAC 16ms / 115VAC at full load									
	VOLTAGE RANGE Note.7	80 ~ 264VAC									
	FREQUENCY RANGE	47 ~ 63Hz									
	EFFICIENCY (Typ.)	81.5%	81.5% 86% 87.5% 88% 88.5% 89% 90% 91.5%								
INPUT	AC CURRENT (Typ.)	.4A / 115VAC 1A / 230VAC									
	INRUSH CURRENT (Typ.)	Cold start 30A / 115VAC 60A / 230VAC									
	LEAKAGE CURRENT(max.)	Touch current < 50 \(\text{A} \) 264 VAC									
	LEARAGE CORRECT (IIIax.)						3.33A 2.5A 0 ~ 2 60W 60W 60W 60W 60W 60W 50W 50W				
	OVERLOAD	105 ~ 160% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed									
		71	•					I			
PROTECTION	OVER VOLTAGE	5.2 ~ 7,0V	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 ~ 64.8V		
					ver on to recove	r					
	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	$-40 \sim +85^{\circ}$ C, $10 \sim 95\%$ RH non-condensing									
	TEMP. COEFFICIENT	±0.03% / °C (0~40°C)									
	VIBRATION		,	neriod for 60min	each along X Y	7 axes					
	OPERATING ALTITUDE Note.8	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
			3000 meters								
	SAFETY STANDARDS	IEC60601-1/IEC60601-1-11, BS EN/EN60601-1/ BS EN/EN60601-1-11, ANSI/AAMI ES60601-1 / ES60601-1-11(3.1 version									
	ISOLATION LEVEL	CAN/CSA-C22.2 No. 60601-1:14 - Edition 3, EAC TP TC 004 approved Primary-Secondary: 2xMOPP									
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC									
			Ohms / 500VDC /	25°C / 700/ DU							
	ISOLATION RESISTANCE		JIIIIS / SUUVDC /		.1		To add an	-1/M-4-			
		Parameter	Parameter Standard Test Level / Note								
	EMC EMISSION	Conducted emi	conducted emission BS EN/EN55011 (CISPR11), FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B)					Class B			
		PS EN/EN/ED/11 (CISPD11) ECC DADT 15 /									
		Radiated emission CISPR22, CAN ICES-3(B)/NMB-3(B)				Class B	Class B				
		Harmonic curre	Harmonic current BS EN/EN61000-3-2				Class A	Class A			
SAFETY &		Voltage flicker			N61000-3-3						
EMC			1-1-2 RS FN/FN								
(Note. 9)	EMC IMMUNITY	Parameter	BS EN/EN60601-1-2, BS EN/EN61204-3								
					Standard BS EN/EN61000-4-2						
		ESD		BS EN/E	BS EN/EN61000-4-2			Level 4, 15KV air ; Level 4, 8KV contact			
		RF field susceptibility		BS EN/E	BS EN/EN61000-4-3			Level 3, 10V/m(80MHz~2.7GHz)			
		FFT housete		DC EN/	DC EN/ENG1000 4 4			Table 9, 9~28V/m(385MHz~5.78GHz)			
		EFT bursts			BS EN/EN61000-4-4			·			
		Surge susceptibility			BS EN/EN61000-4-5			Level 3, 1KV/Line-Line			
		Conducted susceptibility		BS EN/E	BS EN/EN61000-4-6			·			
		Magnetic field immunity		BS EN/E	3S EN/EN61000-4-8			Level 4, 30A/m			
		Voltage dip, interruption		BS EN/E	EN61000-4-11			100% dip 1 periods, 30% dip 25 periods 100% interruptions 250 periods			
	MTBF	720K hrs min. MIL-HDBK-217F(25°C)									
OTHERS	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			able by customer	•						
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 un The ambient temperature de The power supply is consider	are specified at 230VAC input, rated load, 25°C 70% RH ambient. ne output voltage set at point measure by plug terminal & 50% load. are measured at 20MHz by using a 12" twisted pair terminated with a 0.1 µf & 47 µf capacitor. udes set up tolerance, line regulation, load regulation. is measured from low line to high line at rated load. up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. be needed under low input voltages. Pleas check the derating curve for more details. emperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft) highly is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the s. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." ttp://www.meanwell.com) y Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx									







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)

		I						
Tuning F	Type No.	Α		В	С	Quick Adapter		
		OD		ID	L	Accessory		
	~~~~	P1I	5.5		2.1	9.5		
		P1L	5.5		2.5	9.5		
A-	(Straight)	P1M	5.5	:	2.5	11.0	Available	
	C C	P1IR	5.5	:	2.1	9.5	(Current rating: 7.5A max.)	
	(Right-angled)	P1JR	5.5		2.1	11.0		
		P1LR	5.5	:	2.5	9.5		
	(Right-aligned)	P1MR	5.5	- :	2.5	11.0		
Barro	Type No.	Α		В	С			
Dan	Type No.	OD		ID	L			
	, C	P2I	5.5		2.1	9.5		
	<del> </del>	P2J	5.5		2.1	11.0		
Λ.		P2L	5.5	:	2.5	9.5	None	
	(Straight)	P2M	5.5		2.5	11.0	Notice	
Q _B	(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		
	Lock Style				В	С		
Lock				OD ID		L		
A	Floating Locking	P2S(S761K)	5.53		2.03 12.06		None	
		P2K(761K)	5.53		2.54		NOTIC	
B		P2C(S760K)	5.53	3 2.03		9.52		
	SWITCHCRAFT original or equivalent	P2D(760K)	5.53	2.54		9.52		
Min Di	Min. Pin Style				В С			
IVIIII. FII	Type No.	OD	) ID		L			
Δ	C	P3A	2.35		0.7 11.0		Available (Current rating: 5A max.)	
		P3B	4.0	1.7		11.0		
	EIAJ equivalent	P3C	4.75		1.7	11.0		
Carrie	Type No.	Α	В	С	D			
Center		OD	ID	L	Center Pin			
A A	<mark>C</mark>	P4A	5.5	3.4	11.0	1.0	Available (Current rating: 7.5A max.)	
B B		P4B	6.5	4.4	11.0	1.4	(Guitelittating, 7.5A 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	
donn ha	R6B	1	+Vo		
		2	-Vo	Available (Current rating: 7.5A max.)	
KYCON KPPX-3P equivalent		3	+Vo		
M'a DINI 4 D'a selfit Lorde (avelle)	Type No.	Pin Assignment			
Min. DIN 4 Pin with Lock (male)		PIN No.	Output		
		1	+Vo	Available	
	R7B	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. Div 41 ill with Lock (lenale)		PIN No.	Output		
	R7BF	1	+Vo	None	
2 3 UTUTUU 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2	-Vo		
		3	-Vo		
KYCON KPJX-CM-4S equivalent		4	+Vo		
DIN 5 Pin (male)	Type No.	Pin Assignment			
Birto i iii (iiiaio)		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			
		PIN No.	Output	None	
L (red) 1 2	by customer	1	+Vo		
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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