





- 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/EN60601-1/-1-11
- Extremely low leakage current
- No load power consumption<0.15W
- Energy efficiency level VI and meet CoC Version 5
- -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

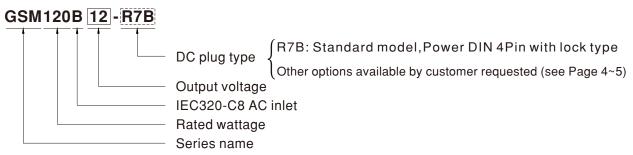
- Mobile clinical workstation
- Oral irrigator
- · Portable hemodialysis machine
- · Breath Machine
- Medical computer monitor

Description

GSM120B is a highly reliable, 120W 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 12VDC 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 (<100\(mu\)A), 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 0.15W, GSM120B 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. GSM120B is approved with the international medical safety certificates.

Model Encoding

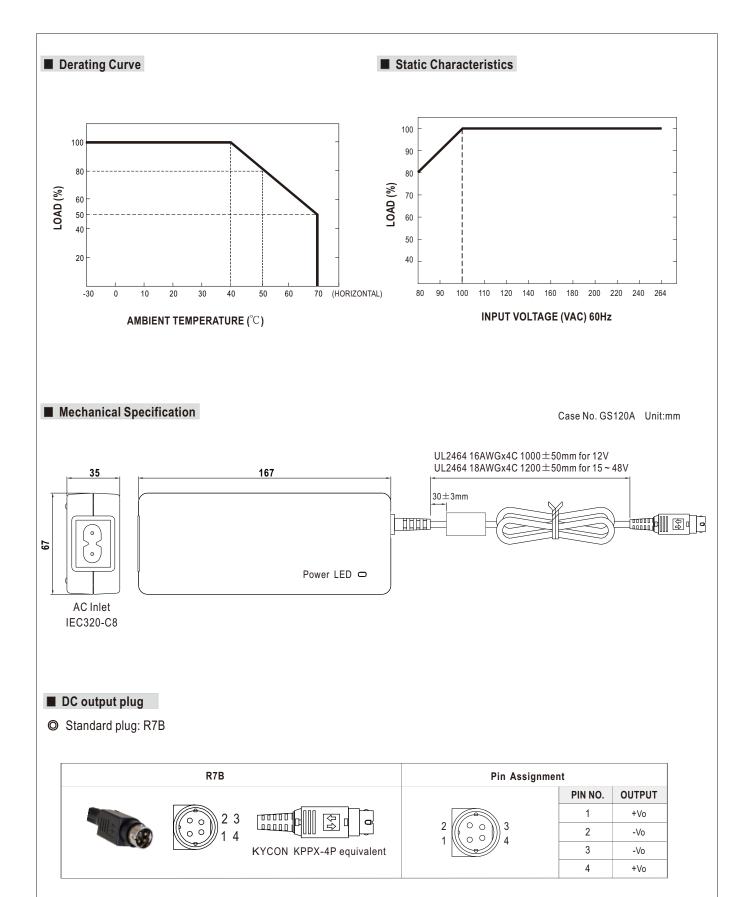




SPECIFICATION

ORDER NO.		GSM120B12-R7B	GSM120B15-R7B	GSM120B20-R7B	GSM120E	324-R7B	GSM120B48-R7B			
	SAFETY MODEL NO.	GSM120B12	GSM120B15	GSM120B20	GSM120B	324	GSM120B48			
ОИТРИТ	DC VOLTAGE Note.2	12V	15V	20V	24V		48V			
	RATED CURRENT	8.5A	7A	6A	5A		2.5A			
					-					
	CURRENT RANGE	0 ~ 8.5A	0 ~ 7A	0 ~ 6A	0 ~ 5A		0 ~ 2.5A			
	RATED POWER (max.)	102W	105W	120W	120W		120W			
	RIPPLE & NOISE (max.) Note.3	100mVp-p	120mVp-p	150mVp-p	180mVp-p)	200mVp-p			
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±5.0%	±3.0%		±2.5%			
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%		±1.0%			
	LOAD REGULATION	±5.0%	±5.0%	±4.0%	±3.0%		±2.5%			
							<u></u>			
		500ms, 30ms / 230VAC 2000ms, 30ms / 115VAC at full load								
	HOLD UP TIME (Typ.)	40ms / 230VAC 24ms / 115VAC at full load								
	VOLTAGE RANGE Note.7	80 ~ 264VAC 113 ~ 370								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.93 / 230VAC P	PF>0.93 / 230VAC PF>0.97 / 115VAC at full load							
INPUT	EFFICIENCY (Typ.)	88%	89%	89.5%	90%		91.5%			
INPUT	AC CURRENT (Typ.)			00.070	0070		01.070			
	, ,									
	INRUSH CURRENT (Typ.)	Cold start 35A / 115VAC 70A / 230VAC								
	LEAKAGE CURRENT(max.)	Touch current < 100 μA/264VAC								
	OVERLOAD	105 ~ 160% rated output power								
		Protection type: Hiccup mode, recovers automatically after fault condition is removed								
PROTECTION		105 ~ 135% rated output voltage								
	OVER VOLTAGE	. •								
	OVED TEMPEDATURE	Protection type: Shut down o/p voltage, re-power on to recover								
	OVER TEMPERATURE		Shut down o/p voltage, re-power on to recover							
	WORKING TEMP.	-30 \sim +70 $^{\circ}$ C (Refer to "Derating Curve")								
ENVIRONMENT	WORKING HUMIDITY	20% ~ 90% RH non-condensing								
	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	3000 meters								
	SAFETY STANDARDS	IEC60601-1/IEC60601-1-11, EN60601-1/ EN60601-1-11, ANSI/AAMI ES60601-1 / ES60601-1-11(3.1 version), CAN/CSA-C22.2 No. 60601-1:14 - Edition 3, EAC TP TC 004 approved								
	ISOLATION LEVEL	Primary-Secondary: 2xMOPP								
	WITHSTAND VOLTAGE	I/P-O/P: 4KVAC								
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500	VDC / 25°C / 70% RH							
SAFETY &	EMC EMISSION	Parameter Standard			Test Level / Note					
		Conducted emission EN55011 (CISPR11), FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B)		Class B						
		EN55011 (CISPR11), FCC PART 15 / CISPR22,		Class B						
				CAN ICES-3(B)/NMB-3(B)						
		Harmonic current	EN61000-3	EN61000-3-2		Class A				
		Voltage flicker	EN61000-3	-3						
EMC		EN60601-1-2, EN61204-3	3							
(Note. 9)	EMC IMMUNITY	Parameter	Standard	Standard		Test Level / Note				
		ESD	EN61000-4			Level 4, 15KV air ; Level 4, 8KV conta				
			LIVO 1000-4	_	Level 3, 10V/m(80MHz~2.					
		RF field susceptibility	EN61000-4	EN61000-4-3		Table 9, 9~28V/m(385MHz~5.78GHz				
		EFT bursts	EN61000-4	000-4-4		Level 3, 2KV				
		Surge susceptibility	EN61000-4	000-4-5		Level 3, 1KV/Line-Line				
		Conducted susceptibility		·		Level 3, 10V				
		Magnetic field immunity	EN61000-4			Level 4, 30A/m				
		Voltage dip, interruption				100% dip 1 periods, 30% dip 25 period				
	MTBF	372K hrs min. MIL-HDBk				100% interrupti	ons 250 periods			
OTHERS	DIMENSION	167*67*35mm (L*W*H)								
	PACKING	0.6Kg; 20pcs/13,0Kg/0.89CUFT								
		See page 4~5; Other type available by customer requested								
CONNECTOR	PLUG		•	•						
	CABLE	See page 4~5; Other type available by customer requested								
NOTE	 All parameters are specified 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 und The ambient temperature de 	uge set at point measure be do at 20MHz by using a 12" olerance, line regulation, lo from low line to high line sured at first cold start. Tuder low input voltage. Plearating of 3.5°C/1000m with	y plug terminal & 50% lo: † twisted pair terminated vad regulation. trated load. urning ON/OFF the power use check the derating out h fanless models and of \$1.	ad. with a 0.1 ¼ & 47 ¼ capacity supply may lead to increative for more details. °C/1000m with fan models	ase of the s	ting altitude hig				
	9. The power supply is conside EMC directives. For guidance of (as available on http://www.meanw Product Liability Disclaimer: F	on how to perform these EMC to vell.com)	ests, please refer to "EMI testir	g of component power supplies.		, ,	lies with the			







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.	A	В	С	Quick Adapter	
		OD	ID	L	Accessory	
A C	P1J	5.5	2.1	11.0	Available for 15 ~ 48V	
(Straight)	P1M	5.5	2.5	11.0	(Current rating: 7.5A max.)	
Min DIN 4 Din with Look (formula)	Type No.	Pin Assignment				
Min. DIN 4 Pin with Lock (female)		PIN No. Output				
	R7BF	1	+\	′ o	None	
		2	-V	0		
2 3 1 4 Uninnin		3	-V	0		
KYCON KPJX-CM-4S equivalent		4	+\	′ o		
DINE Din (male)	Type No.	Pin Assignment				
DIN 5 Pin (male)		PIN No.	Outp	ut	1	
		1	-V	0		
	R1B	2	-V	0	None	
$\begin{pmatrix} \begin{pmatrix} 1 & 3 \\ 0 & 2 & 5 \end{pmatrix} \end{pmatrix}$		3	+\/	' 0		
0 5 0		4	-V	0		
		5	+\	/o		
NEUTDIK VID NOAFV a minalant		Pin Assignment				
NEUTRIK XLR NC4FX equivalent	Type No.	PIN No.	Outp	out		
Д. Д.	MIC4	1	+\/	' 0	None	
		2	+V	'o		
		3	-V	0		
		4	-Vo	·		
MOLEX 39-01-2060 (4.2mm) equivalent	Type No.	Pin Assignment				
WOLLA 33-01-2000 (4.211111) equivalent		PIN No.	Outp			
	C6P	1	+\/			
		2	+\/			
456		3	+\/		None	
123		4	-V			
FG not connected to output connector		5	-V	0		
1 O not connected to output connector		6	-V	0		



AND 4 400700 0 (0 05)	Type No.	Pin Assignment		Quick Adapter
AMP 1-480702-0 (6.35mm) equivalent		PIN No.	Output	Accessory
	C4P	1	+Vo	
3 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2	+Vo	None
		3	-Vo	None
FG not connected to output connector		4	-Vo	
Ctrinned and tinned leads	Type No.	Pin Assignment		
Stripped and tinned leads		PIN No.	Output	
(red,blue)	by customer	1	+Vo	None
L1 (black,white) Length of Land L1 by request (MW's standard length, L: 25 mm, L1: 5 mm)		2	-Vo	

■ Installation Manual

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