





Features

- Universal AC input / Full range
- 2 pole AC inlet IEC320-C8
- Built-in active PFC function, PF>0.93
- High efficiency up to 91.5%
- Low leakage current <100μA
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- · Fully enclosed plastic case
- Medical safety approved (2×MOPP between primary to secondary)
- · Class II power (without earth pin)
- · LED indicator for power on
- No load power consumption<0.15W
- ErP step2 compliant (level V)
- · Meet EISA 2007 (Energy Independence and Security Act)
- 100% full load burn-in test
- 3 years warranty

Applications

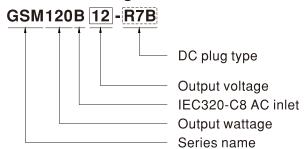
- · Mobile clinical workstation
- Oral irrigator
- · Portable hemodialysis machine
- Breath Machine
- Medical computer monitor

Description

GSM120B is a highly reliable, 120W 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 μ 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, the design of GSM120B observes the latest energy regulation (Level V); 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

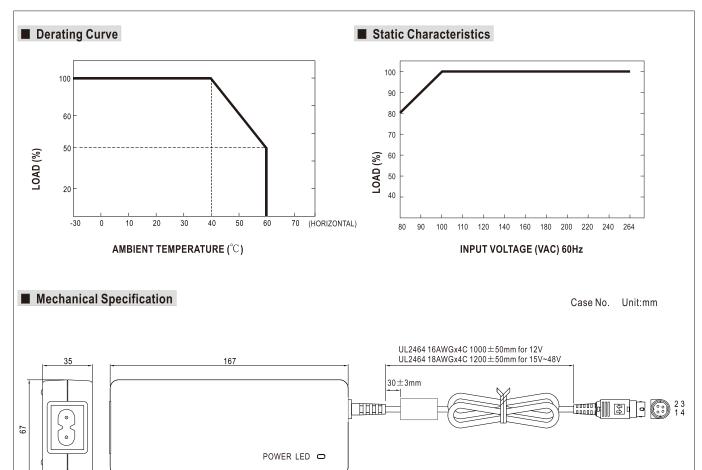




SPECIFICATION

ORDER NO.	•	GSM120B12-R7B	GSM120B15-R7B	GSM120B20-R7B	GSM120B24-R7B	GSM120B48-R7B	
	SAFETY MODEL NO.	GSM120B12	GSM120B15	GSM120B20	GSM120B24	GSM120B48	
	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	
OUTPUT	RIPPLE & NOISE (max.) Note.3	120mVp-p	150mVp-p	180mVp-p	200mVp-p	240mVp-p	
	VOLTAGE TOLERANCE Note.4		±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%	
		1500ms, 30ms / 230VAC 2000ms, 30ms / 115VAC at full load					
	HOLD UP TIME (Typ.)	20ms / 230VAC 20ms / 115VAC at full load					
INPUT	VOLTAGE RANGE	80 ~ 264VAC 113 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	PF>0.93 / 230VAC PF>0.97 / 115VAC at full load					
	EFFICIENCY (Typ.)	88%	89%	89%	90%	91.5%	
	AC CURRENT (Typ.)	1.4A / 115VAC 0.7A	/ 230VAC				
	INRUSH CURRENT (Typ.)	35A / 115VAC 70A / 230VAC					
	LEAKAGE CURRENT(max.)	Touch current < 100 \(\mu A \) 264 VAC					
		105 ~ 160% rated output power					
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
PROTECTION	OVER VOLTAGE	105 ~ 135% rated output voltage					
		Protection type: Shut down o/p voltage, re-power on to recover					
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover					
ENVIRONMENT	WORKING TEMP.	$-30 \sim +60$ °C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20% ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03% / °C (0~40°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY &	SAFETY STANDARDS	ANSI/AAMI ES60601-1 / ES60601-1-11, TUV EN60601-1 / EN60601-1-11 approved					
	WITHSTAND VOLTAGE	I/P-O/P: 4KVAC					
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH					
(Note. 7)	EMC EMISSION	Compliance to EN55011(CISPR11) class B, EN61000-3-2,3, FCC PART 15 class B					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN60601-1-2, EN61204-3 medical level, criteria A					
OTHERS	MTBF	372K hrs min. MIL-HDBK-217F(25℃)					
	DIMENSION	167*67*35mm (L*W*H)					
	PACKING	0.6Kg; 20pcs/13.0Kg/0.9CUFT					
CONNECTOR	PLUG	See page 2; Other type available by customer requested					
COMMEDICAL	CABLE	See page 2; Other type available by customer requested					
NOTE	 All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient. DC voltage: The output voltage set at point measure by plug terminal & 50% load. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor. Tolerance: includes set up tolerance, line regulation, load regulation. Line regulation is measured from low line to high line at rated load. Length of set up time is measured at first cold start. Turning ON/ The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 						





■ Plug Assignment

Standard plug (all models)

R7B					
	PIN NO.	OUTPUT			
2 ((00)) 3	1,4	+V			
	2,3	-V			

■ Installation Manual

Please refer to: http://www.meanwell.com/webnet/search/InstallationSearch.html