

GSM25B series





Applications

- Blood glucose meter
- Blood pressure meter
- Nebulizer
- Inhaler
- · Portable medical device

- Features
- Universal AC input / Full range
- 2 pole AC inlet IEC320-C8
- High efficiency up to 88%
- Low leakage current <50 µA
- · Protections: Short circuit / Overload / Over voltage
- 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<0.1W
- ErP step2 compliant (level $\rm V)$
- Meet EISA 2007 (Energy Independence and Security Act)
- Optional lock type DC plug
- 3 years warranty

Description

GSM25B is a highly reliable, 25W 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 miniature medical devices. The circuitry design meets the international medical standards ($2 \times MOPP$), having an ultra low leakage current ($<50\mu$ A), fitting the medical devices in direct electrical contact with the patients.

With the efficiency up to 88% and the extreme low no-load power consumption below 0.1W, the design of GSM25B 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. GSM25B is approved with the international medical safety certificates.

Model Encoding										
GSM25 B 05 - P1J										
	Standard : P1J (without lock)									
	DC plug type { Optional : P2S (lock type)									
	Output voltage									
	IEC320-C8 2 pin AC inlet									
	Output wattage									
	—— Series name									
	MeanWell Direct									



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SPECIFICATION

ORDER NO		GSM25B05-P1J	GSM25B07-P1J	GSM25B09-P1J	GSM25B12-P1J	GSM25B15-P1J	GSM25B18-P1J	GSM25B24-P1J	GSM25B48-P1	
OUTPUT	SAFETY MODEL NO.	GSM25B05	GSM25B07	GSM25B09	GSM25B12	GSM25B15	GSM25B18	GSM25B24	GSM25B48	
	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V	
	RATED CURRENT	4A	2.93A	2.77A	2.08A	1.66A	1.38A	1.04A	0.52A	
	CURRENT RANGE	0 ~ 4A	0~2.93A	0~2.77A	0~2.08A	0~1.66A	0~1.38A	0~1.04A	0~0.52A	
	RATED POWER (max.)	20W	22W	25W	25W	25W	25W	25W	25W	
	RIPPLE & NOISE (max.) Note.3	60mVp-p	80mVp-p	80mVp-p	120mVp-p	120mVp-p	150mVp-p	180mVp-p	240mVp-p	
	VOLTAGE TOLERANCE Note.4		±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION	±6.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	
		500ms, 30ms / 2			5VAC at full load					
	HOLD UP TIME (Typ.)	16ms / 230VAC 16ms / 115VAC at full load								
	VOLTAGE RANGE	80 ~ 264VAC 113 ~ 370VDC								
INPUT	FREQUENCY RANGE	47~63Hz								
	EFFICIENCY (Typ.)	80%	83%	84%	86%	86%	86%	87%	88%	
	AC CURRENT (Typ.)	0.7A / 115VAC	0.35A/230\			00,0		0.70	0070	
	INRUSH CURRENT (Typ.)	55A/230VAC 30A/115VAC								
	LEAKAGE CURRENT(max.)	Touch current < 50//A/264VAC								
PROTECTION										
	OVERLOAD	105 ~ 170% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed								
		5.25 ~ 7.5V	7.88 ~ 10.5V	9.45 ~ 13V	12.6 ~ 17.2V	15.75 ~ 20.25V		25.2 ~ 32.4V	50.4 ~ 64.8V	
	OVER VOLTAGE						10.0 20.20	20.2 02.47	00.4 04.07	
ENVIRONMENT	WORKING TEMP.	Protection type : Shut down o/p voltage, re-power on to recover -25 ~ +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	±0.03% 7 C (0~40 C) 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
SAFETY & EMC (Note. 7)	SAFETY STANDARDS	ANSI/AAMI ES60601-1 / 60601-1-11, TUV EN60601-1 / 60601-1-11 approved								
	WITHSTAND VOLTAGE	I/P-0/P:4KVAC								
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH								
	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	796.7K hrs min. MIL-HDBK-217F(25°C)								
	DIMENSION	795.7K hrs min. MiL-HDBK-217F(25 C) 79*54*33mm (L*W*H)								
	PACKING		,	J						
CONNECTOR	PLUG	235g; 60pcs / 15.1Kg / CARTON Standard type P1J: 2.1 \u03c6 * 5.5 \u03c6 * 11mm, tuning fork type, center positive for stock; Other type available by customer requested								
	CABLE	See page 2	10.2.19 0.09	Thini, taning	ion type, center					
NOTE	 All parameters are specifie DC voltage: The output vol Ripple & noise are measur Tolerance: includes set up Line regulation is measure Length of set up time is mé The power supply is considered EMC directives. For guidance 	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/OFF the power supply may lead to increase of the set up time. 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)								



25W AC-DC Single Output Medical Adaptor

GSM25B series

