

















Features

- · Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- Medical safety approved (2 x MOPP between primary to secondary)
- Suitable for BF application with appropriate system consideration
- · Low leakage current <100uA
- No load power consumption<0.15W
- · Energy efficiency level VI
- · Comply with EISA 2007/DoE, NRCan, AU/NZ MEPS, EU ErP and meet CoC Version 5
- · Built-in active PFC function
- High efficiency up to 91%
- Fanless design with -30~+70°C working temperature
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- LED indicator for power on
- 100% full load burn-in test
- · Optional lock type DC plug
- · 3 years warranty

Applications

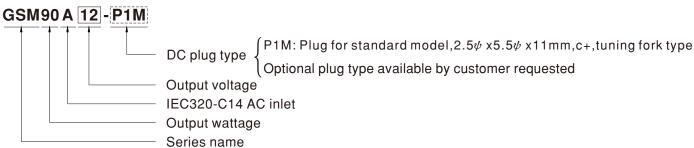
- · Mobile clinical workstation
- Oral irrigator
- · Portable hemodialysis machine
- Breath Machine
- Medical computer monitor

Description

GSM90A is a highly reliable, 90W desktop style single-output green medical adaptor series. This product is equipped with a 3-pin (with FG) standard IEC320-C14 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 (<100uA), 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, GSM90A 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. GSM90A is approved with the international medical safety certificates.

Model Encoding

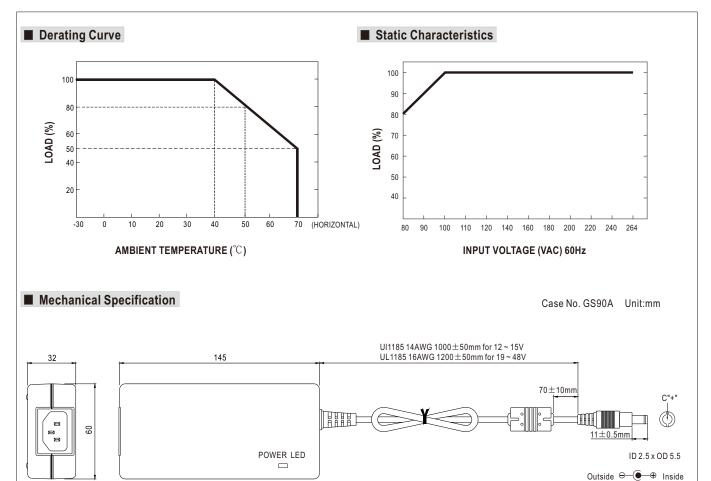




SPECIFICATION

ORDER NO.		GSM90A12-P1M	GSM90A15-P1M	GSM90A19-P1M	GSM90A24-P1M	GSM90A48-P1M	
OUTPUT	SAFETY MODEL NO.	GSM90A12	GSM90A15	GSM90A19	GSM90A24	GSM90A48	
	DC VOLTAGE Note.2	12V	15V	19V	24V	48V	
	RATED CURRENT	6.67A	6A	4.74A	3.75A	1.87A	
	CURRENT RANGE	0 ~ 6.67A	0 ~ 6A	0 ~ 4.74A	0 ~ 3.75A	0 ~ 1.87A	
	RATED POWER (max.)	80W	90W	90W	90W	90W	
	RIPPLE & NOISE (max.) Note.3	120mVp-p	150mVp-p	180mVp-p	200mVp-p	240mVp-p	
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±4.0%	±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%	
	SETUP, RISE TIME Note.6	1000ms, 50ms / 230VAC	1000ms, 50ms / 115\	AC at full load			
	HOLD UP TIME (Typ.)	20ms / 230VAC 20ms / 115VAC at full load					
INPUT	VOLTAGE RANGE Note.7	80 ~ 264VAC					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	PF>0.91 / 230VAC PF>0.95 / 115VAC at full load					
	EFFICIENCY (Typ.)	88%	89%	89%	90%	91%	
	AC CURRENT (Typ.)		/ 230VAC				
	INRUSH CURRENT (Typ.)	30A / 115VAC 65A / 230VAC					
	LEAKAGE CURRENT(max.)	Earth leakage current < 100μA/264VAC , Touch current <100μA/264VAC					
	, ,	110 ~ 150% rated output power					
PROTECTION	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
		105 ~ 135% rated output voltage					
	OVER 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 ~ +70°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 & EMC (Note. 8)	SAFETY STANDARDS	ANSI/AAMI ES60601-1, TUV EN60601-1 approved					
	ISOLATION LEVEL	Primary-Secondary: 2xMOPP					
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:SHORT					
	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	405.6K hrs min. MIL-HDBK-217F(25°C)					
	DIMENSION	145*60*32mm (L*W*H)					
	PACKING	0.45Kg; 30pcs/14.5Kg/1CUFT					
CONNECTOR	PLUG	See page 3; Other type available by customer requested					
	CABLE	See page 3; Other type available by customer requested					
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 me Derating may be needed u The power supply is considered. EMC directives.	d at 230VAC input, rated tage set at point measure ed at 20MHz by using a tolerance, line regulation, d from low line to high line basured at first cold start. nder low input voltages. F	load, 25°C 70% RH amb e by plug terminal & 50% 12" twisted pair terminated load regulation. e at rated load. Turning ON/OFF the pow Pleas check the derating of	ent. load. d with a 0.1uf & 47uf cap er supply may lead to inc curve for more details.	crease of the set up time.	mplies with the	





■ Plug Assignment

Standard plug: P1M

P1M					
P/N	OUTPUT				
CENTER	+				

Optional lock type plug: P2S SWITCHCRAFT S761K plug equivalent

■ Installation Manual

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

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