


 Energy Verified
Rendement
Énergétique Vérifié


■ Features

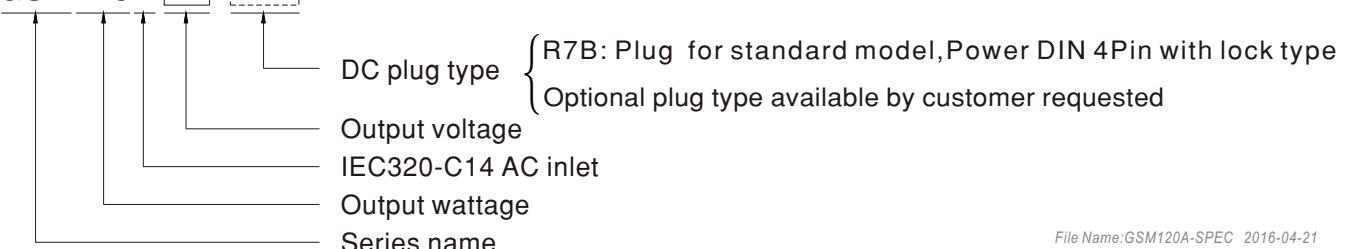
- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- Medical safety approved (2 x MOPP between primary to secondary)
- Optional models suitable for BF application with appropriate system consideration
- Low leakage current <100uA
- No load power consumption<0.15W
- Energy efficiency level 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 91.5%
- 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
- 3 years warranty

■ Description

GSM120A is a highly reliable, 120W 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.

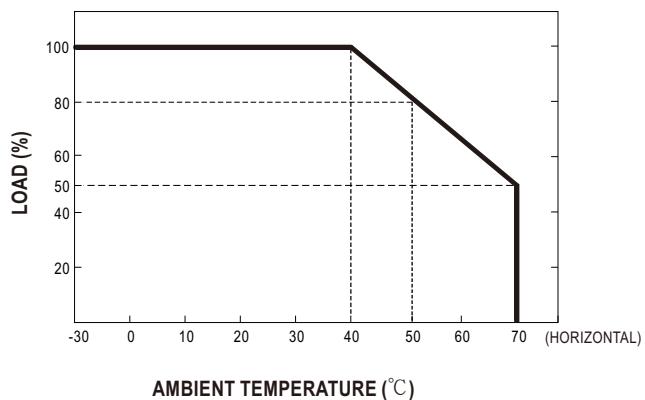
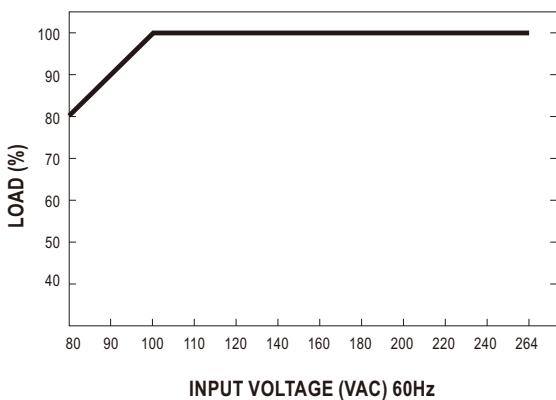
With the efficiency up to 91.5% and the extremely low no-load power consumption below 0.15W, GSM120A is compliant with USA EISA 2007/DoE, Canada NRCan, Australia and New Zealand MEPS, EU ErP, and meet Code of Conduct (CoC) Version 5. The supreme feature allows the adaptor to save the energy when it is either under the operating mode or the standby mode. The entire series utilizes the 94V-0 flame retardant plastic case. GSM120A is approved with the international medical safety certificates.

■ Model Encoding

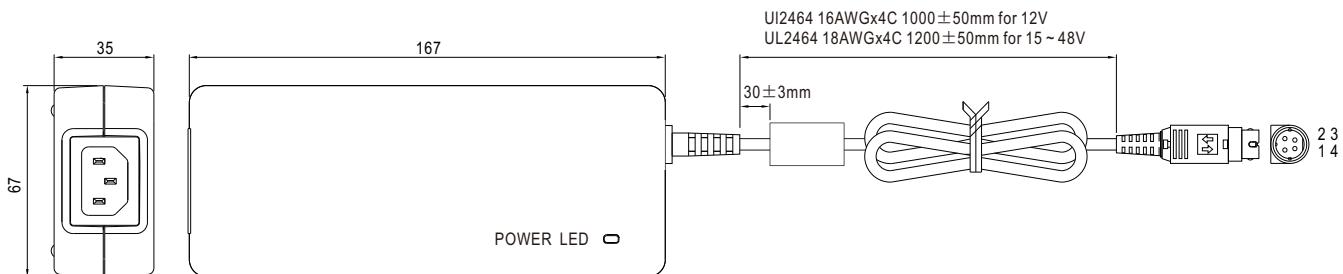
 GSM120A **12** - **R7B**


SPECIFICATION

ORDER NO.	GSM120A12-R7B	GSM120A15-R7B	GSM120A20-R7B	GSM120A24-R7B	GSM120A48-R7B
OUTPUT	SAFETY MODEL NO.	GSM120A12	GSM120A15	GSM120A20	GSM120A24
	DC VOLTAGE Note.2	12V	15V	20V	24V
	RATED CURRENT	8.5A	7A	6A	5A
	CURRENT RANGE	0 ~ 8.5A	0 ~ 7A	0 ~ 6A	0 ~ 5A
	RATED POWER (max.)	102W	105W	120W	120W
	RIPPLE & NOISE (max.) Note.3	120mVp-p	150mVp-p	180mVp-p	200mVp-p
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±5.0%	±3.0%
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±5.0%	±5.0%	±4.0%	±3.0%
INPUT	SETUP, RISE TIME Note.6	1500ms, 30ms / 230VAC	2000ms, 30ms / 115VAC at full load		
	HOLD UP TIME (Typ.)	20ms / 230VAC	20ms / 115VAC at full load		
PROTECTION	VOLTAGE RANGE Note.7	80 ~ 264VAC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF>0.93 / 230VAC	PF>0.97 / 115VAC at full load		
	EFFICIENCY (Typ.)	88%	89%	89%	90%
	AC CURRENT (Typ.)	1.4A / 115VAC	0.7A / 230VAC		
	INRUSH CURRENT (Typ.)	35A / 115VAC	70A / 230VAC		
ENVIRONMENT	LEAKAGE CURRENT(max.)	Earth leakage current <100µA/264VAC , Touch current <100µA/264VAC			
	OVERLOAD	105 ~ 160% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed			
	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			
SAFETY & EMC (Note. 9)	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			
OTHERS	SAFETY STANDARDS	ANSI/AAMI ES60601-1, TUV EN60601-1 approved			
	ISOLATION LEVEL	Primary-Secondary: 2xMOPP			
	WITHSTAND VOLTAGE Note.8	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
	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			
CONNECTOR	MTBF	372K hrs min. MIL-HDBK-217F(25°C)			
	DIMENSION	167*67*35mm (L*W*H)			
	PACKING	0.6Kg; 20pcs/13.0Kg/0.9CUFT			
NOTE	PLUG	See page 3 ; Other type available by customer requested			
	CABLE	See page 3 ; Other type available by customer requested			

■ Derating Curve

■ Static Characteristics

■ Mechanical Specification

Case No. GS120A Unit:mm


■ Plug Assignment

Output plug (Power DIN 4 pin with lock type) : KYCON KPPX-4P equivalent

Mating plug (customer side, not provide with power supply) : KYCON KPJX-CM-4S equivalent

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

AC FG

Outer shell connected to AC FG
 -V not connected to AC FG

■ Installation Manual

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