















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

Applications

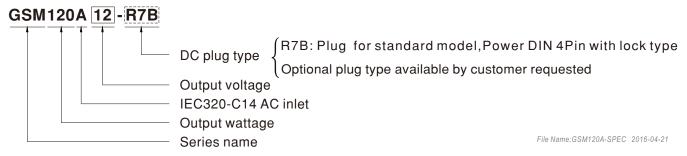
- · Mobile clinical workstation
- Oral irrigator
- Portable hemodialysis machine
- · Breath Machine
- Medical computer monitor

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

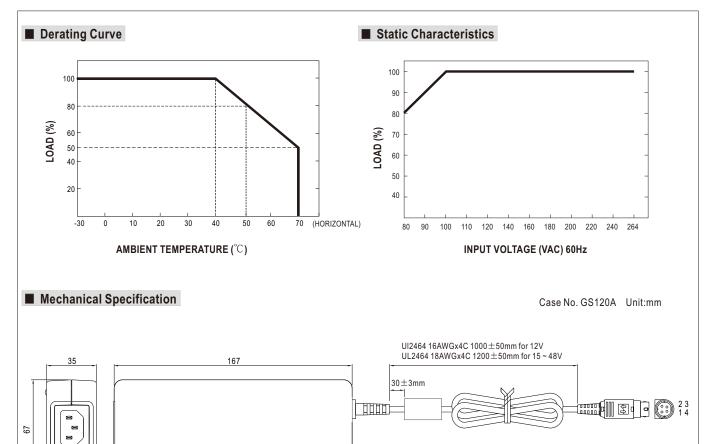




SPECIFICATION

ORDER NO.		GSM120A12-R7B	GSM120A15-R7B	GSM120A20-R7B	GSM120A24-R7B	GSM120A48-R7B
	SAFETY MODEL NO.	GSM120A12	GSM120A15	GSM120A20	GSM120A24	GSM120A48
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	120mVp-p	150mVp-p	180mVp-p	200mVp-p	240mVp-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%
	SETUP, RISE TIME Note.6	5 1500ms, 30ms / 230VAC 2000ms, 30ms / 115VAC at full load				
	HOLD UP TIME (Typ.)	20ms / 230VAC 20ms / 115VAC at full load				
INPUT		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%	91.5%
	AC CURRENT (Typ.)	1.4A / 115VAC 0.7A	/ 230VAC			
	INRUSH CURRENT (Typ.)	35A / 115VAC 70A / 230VAC				
	LEAKAGE CURRENT(max.)	Earth leakage current < 100μA/264VAC , Touch current <100μA/264VAC				
PROTECTION		105 ~ 160% rated output power				
	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. 9)	SAFETY STANDARDS	ANSI/AAMI ES60601-1, TUV EN60601-1 approved				
	ISOLATION LEVEL	Primary-Secondary: 2xMOPP				
		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				
OTHERS	MTBF	372K hrs min. MIL-HDBK-217F(25°C)				
	DIMENSION	167*67*35mm (L*W*H)				
	PACKING	0.6Kg; 20pcs/13.0Kg/0.9CUFT				
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 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. Derating may be needed under low input voltages. Pleas check the derating curve for more details. Optional for 1.5KVAC with BF rated. 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. 					

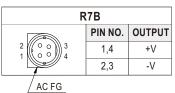




■ Plug Assignment

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

POWER LED



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