

















- * 3 pole AC inlet IEC320-C14, Class I power unit
- Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1 and IEC/BS EN/EN60601-1
- · Extremely low leakage current
- No load power consumption<0.15W
- Energy efficiency level VI and meet CoC Version 5
- -30~+70°C wide range working temperature
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- · LED indicator for power on
- Lifetime > 95 K hours
- Various DC plug quick adapter accessory available
 (Plug kit sold sperately, please refer to : https://www.meanwell.com/upload/pdf/DC plug.pdf

 Output
- 3 years warranty





Applications

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

■ GTIN CODE

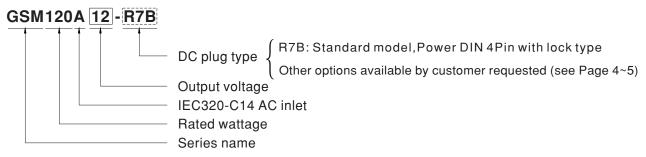
MW Search: https://www.meanwell.com/serviceGTIN.aspx

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 ($<100\mu$ 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, 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	GSM120A2	24-R7B	GSM120A48-R7B			
	SAFETY MODEL NO.	GSM120A12	GSM120A15	GSM120A20	GSM120A2	24	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	100mVp-p	120mVp-p	180mVp-p	180mVp-p		200mVp-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	1500ms, 30ms / 230VAC								
	HOLD UP TIME (Typ.)	40ms / 230VAC 24ms / 115VAC at full load								
	VOLTAGE RANGE Note.7	80 ~ 264VAC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.93 / 230VAC F								
NPUT	EFFICIENCY (Typ.)	88%	89%	89%	90%		91.5%			
	AC CURRENT (Typ.)	1.4A / 115VAC 0.7A	/ 230VAC			311370				
	INRUSH CURRENT (Typ.)	Cold start 35A / 115VAC 70A / 230VAC								
	LEAKAGE CURRENT(max.)	Earth leakage current < 115 µA/264VAC , Touch current <100 µA/264VAC								
PROTECTION		105 ~ 160% rated output power								
	OVERLOAD	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, r	e-power on to recover							
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20% ~ 90% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT	±0.03% / °C (0~40°C)								
		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	VIBRATION	10 ~ 500Hz. 2G 10min./1	cycle, period for 60min	each along X. Y. Z axes						
		·	cycle, period for 60min	each along X, Y, Z axes						
	OPERATING ALTITUDE Note.8	3000 meters		<u> </u>	-C22 2 No. 60601	1-1:14 - Editic	on 3 FAC TP TC 004 appro			
	OPERATING ALTITUDE Note.8 SAFETY STANDARDS	3000 meters IEC60601-1, TUV BS EN/EN	160601-1, ANSI/AAMI ES6	0601-1(3.1 version), CAN/CSA	-C22.2 No. 60601	1-1:14 - Editio	on 3, EAC TP TC 004 appro			
	OPERATING ALTITUDE Note.8 SAFETY STANDARDS ISOLATION LEVEL	3000 meters IEC60601-1, TUV BS EN/EN Primary-Secondary: 2xM	160601-1, ANSI/AAMI ES6 OPP, Primary-Earth: 1.	0601-1(3.1 version), CAN/CSA	-C22.2 No. 60601	1-1:14 - Editic	on 3, EAC TP TC 004 appro			
	OPERATING ALTITUDE Note.8 SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE Note. 9	3000 meters IEC60601-1, TUV BS EN/EN Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-FG	160601-1, ANSI/AAMI ES6 OPP, Primary-Earth: 1 :2KVAC O/P-FG:0.5	0601-1(3.1 version), CAN/CSA	-C22.2 No. 60601	1-1:14 - Editic	on 3, EAC TP TC 004 appro			
	OPERATING ALTITUDE Note.8 SAFETY STANDARDS ISOLATION LEVEL	3000 meters IEC60601-1, TUV BS EN/EN Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-FG I/P-O/P:100M Ohms / 500	160601-1, ANSI/AAMI ES6 OPP, Primary-Earth: 1 :2KVAC	0601-1(3.1 version), CAN/CSA «MOPP (VAC						
	OPERATING ALTITUDE Note.8 SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE Note. 9	3000 meters IEC60601-1, TUV BS EN/EN Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-FG	160601-1, ANSI/AAMI ES6 OPP, Primary-Earth: 1 :2KVAC	0601-1(3.1 version), CAN/CSA «MOPP (VAC	Te	1-1:14 - Edition				
	OPERATING ALTITUDE Note.8 SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE Note. 9	3000 meters IEC60601-1, TUV BS EN/EN Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-FG I/P-O/P:100M Ohms / 500 Parameter	160601-1, ANSI/AAMI ES6 OPP, Primary-Earth: 1 :2KVAC	0601-1(3.1 version), CAN/CSA KMOPP KVAC rd EN55011 (CISPR11), FCC PA	Te RT 15 / CI RT 15 / CI	est Level / I				
SAFETY &	OPERATING ALTITUDE Note.8 SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE Note. 9 ISOLATION RESISTANCE	3000 meters IEC60601-1, TUV BS EN/EN Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-FG I/P-O/P:100M Ohms / 500 Parameter Conducted emission	I60601-1, ANSI/AAMI ES6 OPP, Primary-Earth: 1 :2KVAC	0601-1(3.1 version), CAN/CSA KMOPP KVAC rd EN55011 (CISPR11), FCC PA 2, CAN ICES-3(B)/NMB-3(B) EN55011 (CISPR11), FCC PA	Te RT 15 / CI	est Level / I				
SAFETY &	OPERATING ALTITUDE Note.8 SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE Note. 9 ISOLATION RESISTANCE	3000 meters IEC60601-1, TUV BS EN/EN Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-FG I/P-O/P:100M Ohms / 500 Parameter Conducted emission Radiated emission Harmonic current Voltage flicker	I60601-1, ANSI/AAMI ES6 OPP, Primary-Earth: 1 :2KVAC	0601-1(3.1 version), CAN/CSA MOPP KVAC 10 10 10 10 10 10 10 10 10 10	Te RT 15 / CI	est Level / I lass B lass B				
MC	OPERATING ALTITUDE Note.8 SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE Note. 9 ISOLATION RESISTANCE	3000 meters IEC60601-1, TUV BS EN/EN Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-FG I/P-O/P:100M Ohms / 500 Parameter Conducted emission Radiated emission Harmonic current	I60601-1, ANSI/AAMI ES6 OPP, Primary-Earth: 1 :2KVAC	0601-1(3.1 version), CAN/CSA KMOPP KVAC 10 10 10 10 10 10 10 10 10 10	Te RT 15 / CI	est Level / I lass B lass B				
SAFETY & EMC Note. 10)	OPERATING ALTITUDE Note.8 SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE Note. 9 ISOLATION RESISTANCE	3000 meters IEC60601-1, TUV BS EN/EN Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-FG I/P-O/P:100M Ohms / 500 Parameter Conducted emission Radiated emission Harmonic current Voltage flicker	I60601-1, ANSI/AAMI ES6 OPP, Primary-Earth: 1 :2KVAC	0601-1(3.1 version), CAN/CSA (MOPP (VAC 10 10 10 10 10 10 10 10 10 10	RT 15 / CI	est Level / I lass B lass B	Note			
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MC	OPERATING ALTITUDE Note.8 SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE Note. 9 ISOLATION RESISTANCE	3000 meters IEC60601-1, TUV BS EN/EN Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-FG I/P-O/P:100M Ohms / 500 Parameter Conducted emission Radiated emission Harmonic current Voltage flicker BS EN/EN60601-1-2, BS Parameter	BS EN/E EN/EN61204-3 Standal BS EN/E	0601-1(3.1 version), CAN/CSA MOPP (VAC d N55011 (CISPR11), FCC PA 2, CAN ICES-3(B)/NMB-3(B) N55011 (CISPR11), FCC PA 2, CAN ICES-3(B)/NMB-3(B) EN61000-3-2 EN61000-3-3	Te RT 15 / CI RT 15 / CI CI Te Le Le	est Level / I class B class A est Level / I evel 4, 15K\ evel 3, 10V/	Note Note Vair; Level 4, 8KV contam(80MHz~2.7GHz)			
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MC Note. 10)	OPERATING ALTITUDE Note.8 SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE Note. 9 ISOLATION RESISTANCE EMC EMISSION	3000 meters IEC60601-1, TUV BS EN/EN Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-FG I/P-O/P:100M Ohms / 500 Parameter Conducted emission Radiated emission Harmonic current Voltage flicker BS EN/EN60601-1-2, BS Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted susceptibilit Magnetic field immunity Voltage dip, interruption 2413.9K hrs min. Telc	BS EN/E	0601-1(3.1 version), CAN/CSA MOPP (VAC 10 10 10 10 10 10 10 10 10 10	Te RT 15 / CI RT 15 / CI RT 15 / CI Te Le Le Le Le Le Le 10	est Level / I class B class A class A cest Level / I evel 4, 15KV evel 3, 10V/ evel 3, 2KV evel 3, 1KV/ evel 3, 10V evel 4, 30A/ 200% dip 1 pe 200% interrup	Note Note / air; Level 4, 8KV conta m(80MHz~2.7GHz) v/m(385MHz~5.78GHz Line-Line, 2KV/Line-FG m eriods, 30% dip 25 period			
EMC Note. 10)	OPERATING ALTITUDE Note.8 SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE Note. 9 ISOLATION RESISTANCE EMC EMISSION MTBF DIMENSION	3000 meters IEC60601-1, TUV BS EN/EN Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-FG I/P-O/P:100M Ohms / 500 Parameter Conducted emission Radiated emission Harmonic current Voltage flicker BS EN/EN60601-1-2, BS Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted susceptibility Magnetic field immunity Voltage dip, interruption 2413.9K hrs min. Telc 167*67*35mm (L*W*H)	BS EN/E	0601-1(3.1 version), CAN/CSA MOPP (VAC 10 10 10 10 10 10 10 10 10 10	Te RT 15 / Cl RT 15 / Cl RT 15 / Cl Te Le Le Le Le Le	est Level / I class B class A class A cest Level / I evel 4, 15KV evel 3, 10V/ evel 3, 2KV evel 3, 1KV/ evel 3, 10V evel 4, 30A/ 200% dip 1 pe 200% interrup	Note Note / air; Level 4, 8KV conta m(80MHz~2.7GHz) v/m(385MHz~5.78GHz Line-Line, 2KV/Line-FG m eriods, 30% dip 25 period			
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MC	OPERATING ALTITUDE Note.8 SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE Note. 9 ISOLATION RESISTANCE EMC EMISSION MTBF DIMENSION PACKING	3000 meters IEC60601-1, TUV BS EN/EN Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-FG I/P-O/P:100M Ohms / 500 Parameter Conducted emission Radiated emission Harmonic current Voltage flicker BS EN/EN60601-1-2, BS Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted susceptibility Magnetic field immunity Voltage dip, interruption 2413.9K hrs min. Telc 167*67*35mm (L*W*H)	BS EN/E BS	0601-1(3.1 version), CAN/CSA (MOPP (VAC 10 10 10 10 10 10 10 10 10 10	Te RT 15 / Cl RT 15 / Cl RT 15 / Cl Te Le Le Le Le Le	est Level / I class B class A class A cest Level / I evel 4, 15KV evel 3, 10V/ evel 3, 2KV evel 3, 1KV/ evel 3, 10V evel 4, 30A/ 200% dip 1 pe 200% interrup	Note Note / air; Level 4, 8KV conta m(80MHz~2.7GHz) V/m(385MHz~5.78GHz Line-Line, 2KV/Line-FG m eriods, 30% dip 25 period			

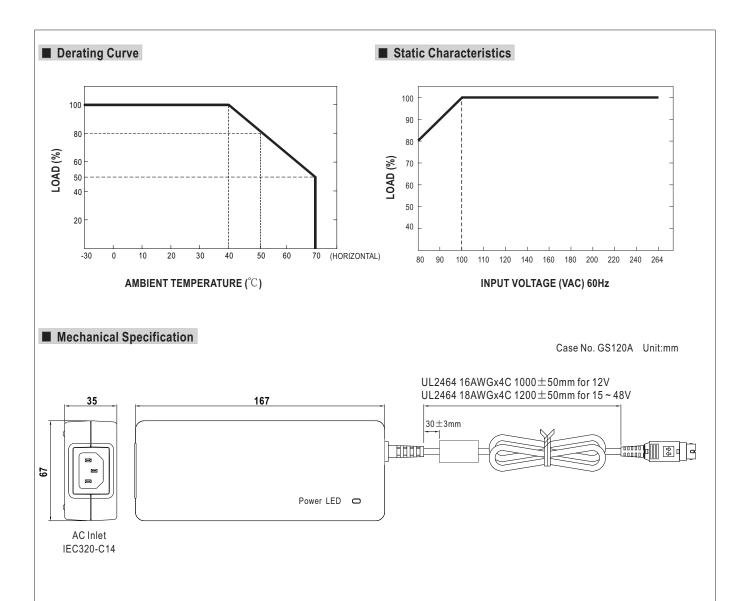
- 3. Ripple & noise are measured at 20MHz by using a 12" twisted pair t 4. Tolerance: includes set up tolerance, line regulation, load regulation.

- 5. Line regulation is measured from low line to high line at rated load.
 6. 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.
 7. Derating may be needed under low input voltages. Pleas check the derating curve for more details.
 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- 9. Optional for 1.5KVAC with BF rated.

NOTE

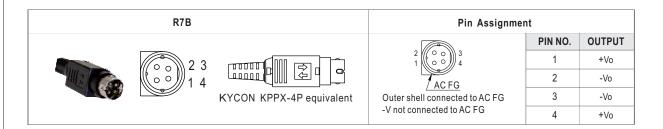
- 10. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
- ** Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





■ DC output plug

O Standard plug: R7B





O DC plug changeable through:

- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
- (2) Quick adapter accessory (sold separately without MOQ)

Please refer to below table and online selection guide: https://www.meanwell.com/upload/pdf/DC_plug.pdf

Example quick adapter accessory:



Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork Style	Type No.	А	В	С	Quick Adapter	
	71	OD	ID	L	Accessory	
A C	P1J	5.5	2.1	11.0	Available for 15 ~ 48V	
(Straight)	P1M	5.5	2.5	11.0	(Current rating: 7.5A max.)	
Mis DIN A Discoult Leady (female)	Type No.	Pin Assignment				
Min. DIN 4 Pin with Lock (female)		PIN No. Output				
	R7BF	1	+\	' 0		
23 [101014]		2	-V	0	Mana	
23 14 Languit		3	-V	0	None	
KYCON KPJX-CM-4S equivalent		4	+\	′o		
DIN F Din (male)	Type No.	Pin Assignment				
DIN 5 Pin (male)		PIN No.	Outp	ut		
		1	-V	0		
		2	-V	0	None	
	R1B	3	+\/	' 0		
		4	-V	0		
		5	+\	′ o		
NEUTDIK VI D. NC4EV aguivalent	T N	Pin Assignment				
NEUTRIK XLR NC4FX equivalent	Type No.	PIN No.	Outp	out		
, ,	MIC4	1	+\/	o		
		2	+V	o o	None	
00 30		3	-V	0		
		4	-Vo)		
MOLEX 39-01-2060 (4.2mm) equivalent	Type No.	Pin Assignment				
MOLEX 00 01 2000 (4.2mm) equivalent		PIN No.	Outp			
	C6P	1	+\/			
		2	+\/			
456		3	+\		None	
123		4	-V			
FG not connected to output connector		5	-V			
1 o not connected to output connected		6	-V	0		



AMD 4 400700 0 (0 25)	Type No.	Pin Assignment		Quick Adapter
AMP 1-480702-0 (6.35mm) equivalent	Type No.	PIN No.	Output	Accessory
		1	+Vo	
	C4P	2	+Vo	None
		3	-Vo	None
FG not connected to output connector		4	-Vo	
Stripped and tinned leads	Type No	Pin Assignment		
Stripped and tillled leads	Type No.	PIN No.	Output	
(red,blue) 1 2 L1 (black,white)	by customer	1	+Vo	None
Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm) (NOTE: The wire color is for reference only, please refer to the actual product)		2	-Vo	

■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html