



Наличие и актуальные цены на

GST120A20-P1M

<https://www.mean-well.ru/store/GST120A20-P1M/>



User's Manual



Video



CB ENEC FCC CE UK CA VI

Energy Verified
Rendement
Énergétique Vérifié



Features

- **Global certificates**
- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14, Class I power unit
- Built-in active PFC function
- No load power consumption < 0.15W
- **Energy efficiency Level VI**
- Comply with EISA 2007/DoE, NRCAN, Korea K-MEPS, AU/NZ MEPS, EU ErP and CoC Version 5
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- -30~+70°C wide range working temperature
- LED indicator for power on
- Various DC plug quick adapter accessory available
(Plug kit sold separately, please refer to : https://www.meanwell.com/upload/pdf/DC_plug.pdf)
- 3 years warranty

Description

GST120A is a highly reliable, 120W desktop style single-output green adaptor series. This product is a class I power unit (with FG), equipped with a standard IEC320-C14 AC inlet and adopting the input range from 85VAC to 264VAC. The entire series supplies different models with output voltages ranging between 12VDC and 48VDC that can satisfy the demands for various types of consumer electronic devices. With the efficiency up to 91% and the extremely low no-load power consumption below 0.15W, GST120A is compliant with USA EISA 2007/DoE, Canada NRCAN, Australia and New Zealand MEPS, Korea K-MEPS, EU ErP and 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. GST120A is certified for the international safety regulations.

Model Encoding

GST 120A 12 -R7B

- DC plug type { R7B: Plug for 12~48V, Power DIN 4Pin with lock type (standard)
P1M: Plug for 20~48V only, 2.5 φ x 5.5 φ x 11mm, C+, tuning fork type (standard)
Other options available by customer requested (see Page 4~5)
- Output voltage
- IEC320-C14 AC inlet
- Rated wattage
- Series name

Applications

- Consumer electronic devices
- Telecommunication devices
- Office facilities
- Industrial equipments

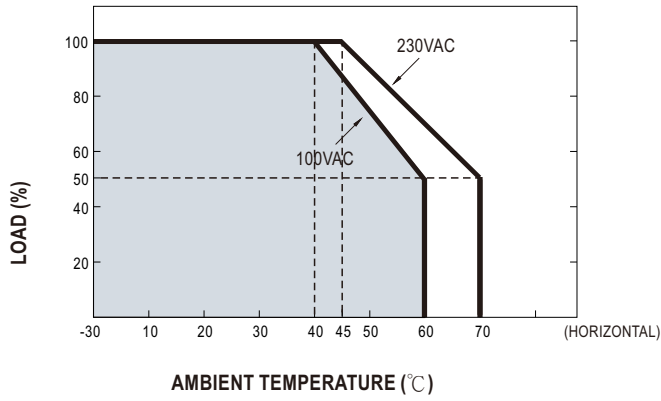
GTIN CODE

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

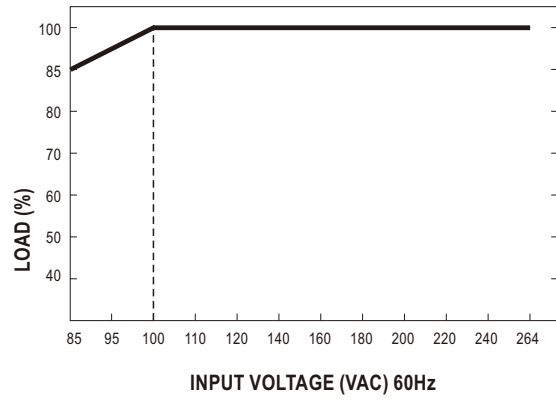
SPECIFICATION

ORDER NO.		GST120A12-R7B	GST120A15-R7B	GST120A20- ☐ ☐ =R7B,P1M	GST120A24- ☐ ☐ =R7B,P1M	GST120A48- ☐ ☐ =R7B,P1M
OUTPUT	SAFETY MODEL NO.	GST120A12	GST120A15	GST120A20	GST120A24	GST120A48
	DC VOLTAGE	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.2	120mVp-p	120mVp-p	150mVp-p	180mVp-p	200mVp-p
	VOLTAGE TOLERANCE Note.3	±5.0%	±5.0%	±5.0%	±3.0%	±2.5%
	LINE REGULATION Note.4	±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.5	2000ms, 30ms / 230VAC 2500ms, 30ms / 115VAC at full load				
HOLD UP TIME (Typ.)	20ms / 230VAC 20ms / 115VAC at full load					
INPUT	VOLTAGE RANGE Note.6	85 ~ 264VAC 120 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF>0.93 / 230VAC PF>0.97 / 115VAC at full load				
	EFFICIENCY (Typ.)	R7B	88.5%	89%	90%	90.5%
		P1M	-----	-----	89%	89.5%
	AC CURRENT	1.4A / 115VAC 0.7A / 230VAC				
	INRUSH CURRENT (max.)	Cold start 35 / 115AC 70A / 230VAC				
	LEAKAGE CURRENT(max.)	0.75mA / 240VAC				
PROTECTION	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				
ENVIRONMENT	WORKING TEMP.	-30 ~ +70℃ (Refer to "Derating Curve")				
	WORKING HUMIDITY	20% ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.03% / °C (0~45℃)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY & EMC (Note. 9)	SAFETY STANDARDS Note. 7	UL62368-1, CSA C22.2 No. 62368-1, TUV BS EN/EN62368-1, BSMI CNS15598-1, CCC GB4943.1, PSE J62368-1, AS/NZS 62368.1, BIS IS13252, KC K60950-1, EAC TP TC 004 approved				
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC				
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH				
	EMC EMISSION	Parameter	Standard		Test Level / Note	
		Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS15936,GB17625.1 EAC TP TC 020,MSIP KN32		Class B	
		Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS15936,GB17625.1 EAC TP TC 020,MSIP KN32		Class B	
		Harmonic current	BS EN/EN61000-3-2,GB9254		Class A	
		Voltage flicker	BS EN/EN61000-3-3		-----	
	EMC IMMUNITY	BS EN/EN55035				
		Parameter	Standard		Test Level /Note	
		ESD	BS EN/EN61000-4-2		Level 4, 15KV air; Level 4, 8KV contact	
		RF field susceptibility	BS EN/EN61000-4-3		Level 2, 3V/m	
		EFT bursts	BS EN/EN61000-4-4		Level 2, 1KV	
		Surge susceptibility	BS EN/EN61000-4-5		Level 3, 1KV/Line-Line , 2KV/Line-FG	
		Conducted susceptibility	BS EN/EN61000-4-6		Level 2, 3V	
		Magnetic field immunity	BS EN/EN61000-4-8		Level 2, 3A/m	
		Voltage dips , interruption	BS EN/EN61000-4-11		>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods	
OTHERS	MTBF	2250.5K hrs min. Telcordia SR-332 (Bellcore) ; 368.5K hrs min. MIL-HDBK-217F (25℃)				
	DIMENSION	167*67*35mm (L*W*H)				
	PACKING	0.575Kg; 20pcs/12.5Kg/0.89CUFT				
CONNECTOR	PLUG	See page 4~5 ; Other type available by customer requested				
	CABLE	See page 4~5 ; Other type available by customer requested				
NOTE		1. All parameters are specified at 230VAC input, rated load, 25℃ 70% RH ambient. 2. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1 μ F & 47 μ F capacitor. 3. Tolerance: includes set up tolerance, line regulation, load regulation. 4. Line regulation is measured from low line to high line at rated load. 5. 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. 6. Derating may be needed under low input voltage. Please check the derating curve for more details. 7. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 8. 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				

Derating Curve



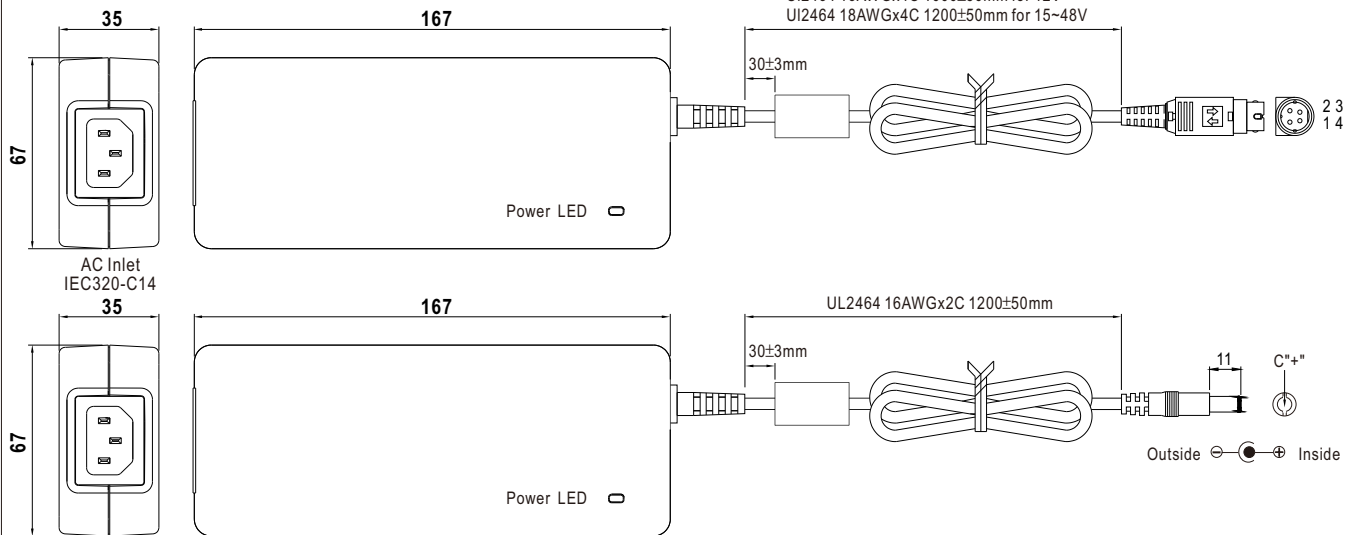
Static Characteristics



Mechanical Specification

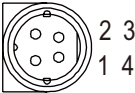
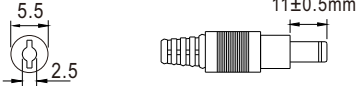
(Unit: mm , tolerance ± 1 mm)

Case No. GS120A



DC output plug

Standard plug

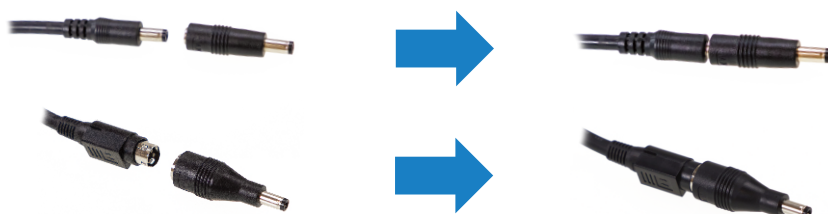
R7B		Pin Assignment		
  KYCON KPPX-4P equivalent	 -V connected to AC FG	PIN NO.	OUTPUT	
		1	+Vo	
		2	-Vo	
		3	-Vo	
		4	+Vo	
P1M		Pin Assignment		
 	 -V connected to AC FG	C ⁺		
		Outside		Inside

◎ DC plug changeable through:

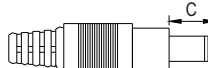
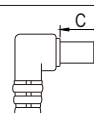
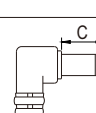
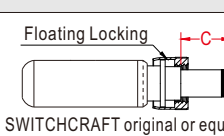
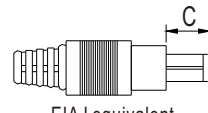
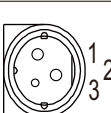
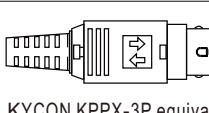
- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
- (2) Quick adapter accessory (sold separately without MOQ)

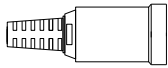
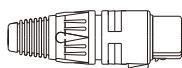
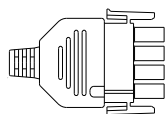
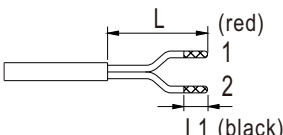
Please refer to below table and online selection guide : https://www.meanwell.com/upload/pdf/DC_plug.pdf

Example quick adapter accessory:



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

Tuning Fork Style		Type No.	A OD	B ID	C L	Quick Adapter Accessory	
 	 (Straight)	P1I	5.5	2.1	9.5	None	
		P1L	5.5	2.5	9.5		
		P1J	5.5	2.1	11.0		
	 (Right-angled)	P1JR	5.5	2.1	11.0	Available for 15 ~ 48V (Current rating: 7.5A max.)	
		P1IR	5.5	2.1	9.5		
		P1LR	5.5	2.5	9.5		
		P1MR	5.5	2.5	11.0		
Barrel Style		Type No.	A OD	B ID	C L	None	
 	 (Straight)	P2I	5.5	2.1	9.5		
		P2J	5.5	2.1	11.0		
		P2L	5.5	2.5	9.5		
	 (Right-angled)	P2M	5.5	2.5	11.0		
		P2IR	5.5	2.1	9.5		
		P2JR	5.5	2.1	11.0		
		P2LR	5.5	2.5	9.5		
		P2MR	5.5	2.5	11.0		
Lock Style		Type No.	A OD	B ID	C L	None	
  	P2S(S761K)	5.53	2.03	12.06			
	P2K(761K)	5.53	2.54	12.06			
	P2C(S760K)	5.53	2.03	9.52			
	P2D(760K)	5.53	2.54	9.52			
Center Pin Style		Type No.	A OD	B ID	C L	D Center Pin	None
  	P4A	5.5	3.4	11.0	1.0		
	P4B	6.5	4.4	11.0	1.4		
	P4C	7.4	5.1	11.0	0.6		
Min. DIN 3 Pin with Lock (male)		Type No.	Pin Assignment			None	
  	R6B	PIN No.		Output			
		1		+Vo			
		2		-Vo			
		3		+Vo			

Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment		Quick Adapter Accessory
		PIN No.	Output	
   KYCON KPJX-CM-4S equivalent	R7BF	1	+Vo	None
		2	-Vo	
		3	-Vo	
		4	+Vo	
DIN 5 Pin (male)	Type No.	Pin Assignment		
		PIN No.	Output	
  	R1B	1	-Vo	None
		2	-Vo	
		3	+Vo	
		4	-Vo	
		5	+Vo	
NEUTRIK XLR NC4FX equivalent	Type No.	Pin Assignment		
		PIN No.	Output	
  	MIC4	1	+Vo	None
		2	+Vo	
		3	-Vo	
		4	-Vo	
MOLEX 39-01-2060 (4.2mm) equivalent	Type No.	Pin Assignment		
		PIN No.	Output	
  	C6P	1	+Vo	None
		2	+Vo	
		3	+Vo	
		4	-Vo	
		5	-Vo	
		6	-Vo	
AMP 1-480702-0 (6.35mm) equivalent	Type No.	Pin Assignment		
		PIN No.	Output	
  	C4P	1	+Vo	None
		2	+Vo	
		3	-Vo	
		4	-Vo	
Stripped and tinned leads	Type No.	Pin Assignment		
		PIN No.	Output	
  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)	by customer	1	+Vo	None
		2	-Vo	

■ Installation Manual

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