





Features

- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- Built-in active PFC function
- No load power consumption<0.15W
- Energy efficiency Level VI
- Comply with EISA 2007/DoE,NRCan, AU/NZ MEPS,EU ErP and CoC Version 5
- · Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage
 / Over temperature
- Fully enclosed plastic case
- * Fanless design with -30~+70 $^\circ \rm C$ working temperature
- · LED indicator for power on
- · 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, 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\u03c6 x5.5\u03c6 x11mm,c+,tuning fork type(standard) Optional plug type available by customer requested Output voltage

Applications

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



GST120A series

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	150mVp-p	180mVp-p	200mVp-p	240mVp-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 / 230VA0	2500ms, 30ms / 1 ⁻	15VAC at full load		
	HOLD UP TIME (Typ.)		20ms / 230VAC 20ms / 115VAC at full load				
			5 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%	91%
INPUT		P1M			89%	89.5%	90.5%
	AC CURRENT			A / 230VAC		/•	
	INRUSH CURRENT (max.)		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°C (Refer to "Derating Curve")				
			20% ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY		-40 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT		±0.03% / °C (0~45°C)				
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
	SAFETY STANDARDS		UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943, PSE J60950-1, AS/NZS 60950.1 approved				
SAFETY & EMC (Note. 7)	WITHSTAND VOLTAGE		UL00930-1, CSA C22.2, TOV EN00930-1, BSMI CNS 14336, CCC GB4943, PSE 300930-1, AS/N2S 00930.1 approved				
	ISOLATION RESISTANCE		I/P-0/P: 100M Ohms / 500VDC / 25°C/ 70% RH				
	EMC EMISSION		I/F-O/P. 100M OTHIS / 500VDC / 25 C / 70% RF Compliance to EN55022 class B, EN61000-3-2,3, FCC PART 15 / CISPR22 class B, CAN ICES-3(B)/NMB-3(B), CNS13438 class B, GB9254, GB17625.1				
			Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A				
OTHERS CONNECTOR							
	MTBF DIMENSION		368.75K hrs min. MIL-HDBK-217F(25°C)				
	PACKING		167*67*35mm (L*W*H) 0.62Kg; 20pcs/13.4Kg/0.9CUFT				
	PLUG		See page 3 ; Other type available by customer requested				
	CABLE		See page 3 ; Other type available by customer requested				
	UADLE		oce hage a , other type available by customer requested				
NOTE	 Ripple & noise a Tolerance: include Line regulation is Length of set up Derating may be The power suppl 	re measur les set up measure time is me needed u y is consid For guidance	tolerance, line regulation d from low line to high lin easured at first cold star- inder low input voltage. I dered as an independent e on how to perform these EN	12" twisted pair termina n, load regulation. ne at rated load. Turning ON/OFF the p Please check the deratir unit, but the final equip	ated with a 0.1uf & 47uf of nower supply may lead to ng curve for more details	p increase of the set up tin	



120W AC-DC High Reliability Industrial Adaptor

GST120A series

