



■ 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°C working temperature
- LED indicator for power on
- 3 years warranty

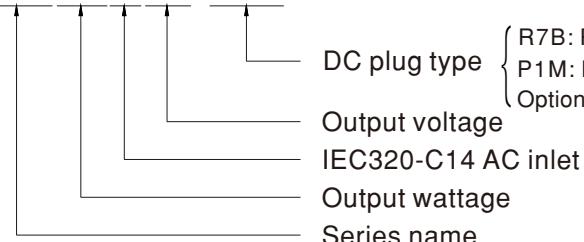
■ Description

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,2.5φ x 5.5φ x 11mm,c+,tuning fork type(standard)
Optional plug type available by customer requested

Output voltage

IEC320-C14 AC inlet

Output wattage

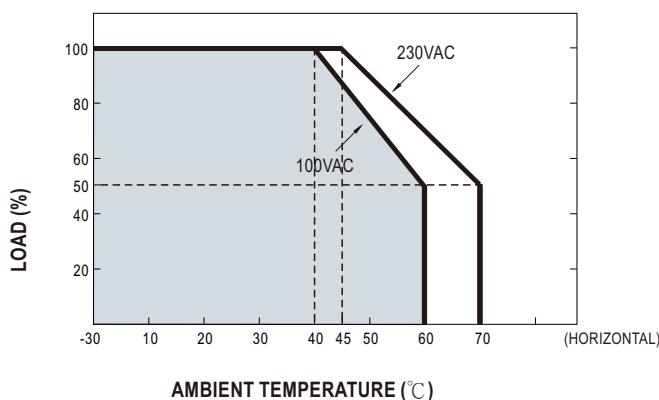
Series name

SPECIFICATION

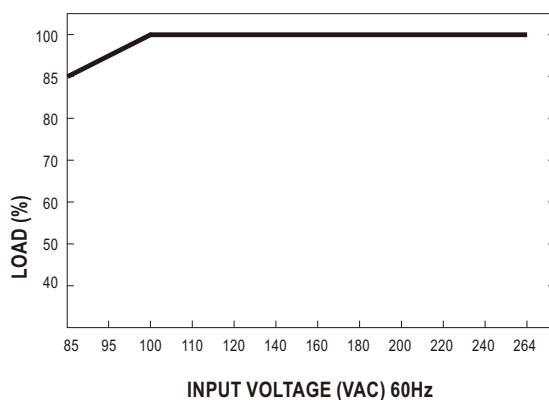
ORDER NO.	GST120A12-R7B	GST120A15-R7B	GST120A20-□ □=R7B,P1M	GST120A24-□ □=R7B,P1M	GST120A48-□ □=R7B,P1M				
OUTPUT	SAFETY MODEL NO.	GST120A12	GST120A15	GST120A20	GST120A24				
	DC VOLTAGE	12V	15V	20V	24V				
	RATED CURRENT	8.5A	7A	6A	5A				
	CURRENT RANGE	0 ~ 8.5A	0 ~ 7A	0 ~ 6A	0 ~ 5A				
	RATED POWER (max.)	102W	105W	120W	120W				
	RIPLPE & NOISE (max.) Note.2	120mVp-p	150mVp-p	180mVp-p	200mVp-p				
	VOLTAGE TOLERANCE Note.3	±5.0%	±5.0%	±5.0%	±3.0%				
	LINE REGULATION Note.4	±1.0%	±1.0%	±1.0%	±1.0%				
	LOAD REGULATION	±5.0%	±5.0%	±4.0%	±3.0%				
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 P1M	88.5% ----	89% ----	90% 89%	90.5% 89.5%			
	AC CURRENT	1.4A / 115VAC	0.7A / 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							
ENVIRONMENT		Protection type : Shut down o/p voltage, re-power on to recover							
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover							
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")							
SAFETY & EMC (Note. 7)	WORKING HUMIDITY	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							
OTHERS	SAFETY STANDARDS	UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943, PSE J60950-1, AS/NZS 60950.1 approved							
	WITHSTAND VOLTAGE	I/P-O/P: 3kVAC							
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION	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							
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A							
CONNECTOR	MTBF	368.75K hrs min. MIL-HDBK-217F(25°C)							
	DIMENSION	167*67*35mm (L*W*H)							
	PACKING	0.62Kg; 20pcs/13.4Kg/0.9CUFT							
NOTE	PLUG	See page 3 ; Other type available by customer requested							
	CABLE	See page 3 ; Other type available by customer requested							

1. All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.
2. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf 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 power supply is considered as an independent unit, but the final equipment still need to re-confirmed 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." (available on <http://www.meanwell.com>)

■ Derating Curve

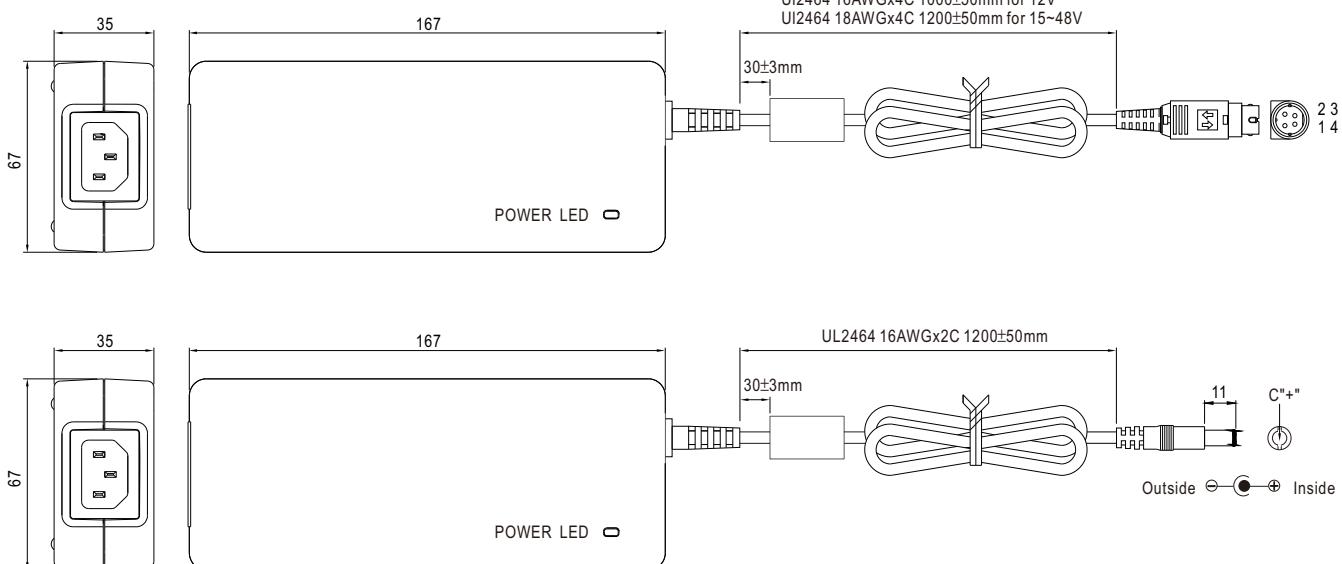


■ Static Characteristics



■ Mechanical Specification

Case No. GS120A Unit:mm



■ Plug Assignment

Standard plug (all models) :

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

Standard plug (For 20V, 24V, 48V only)

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

AC FG
-V connected to AC FG

P1M	
P/N	OUTPUT
CENTER	+

11
ID 2.5 x OD 5.5
C"+
Outside, Inside
-V connected to AC FG

■ Installation Manual

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