































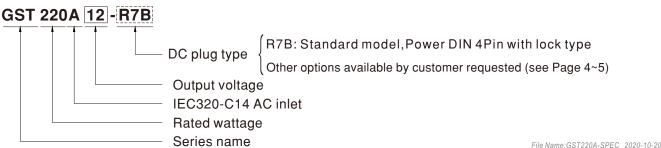


- Global certificates
- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14, Class I power unit
- Built-in active PFC function
- No load power consumption<0.15W</li>
- Energy efficiency Level VI
- Comply with EISA 2007/DoE, NRCan, AU/NZ MEPS, EU ErP and CoC Version 5
- Protections: Short circuit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

# Description

GST220A is a highly reliable, 220W 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 94.5% and the extremely low no-load power consumption below 0.15W, GST220A 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.GST220A is certified for the international safety regulations.

# Model Encoding















# Applications

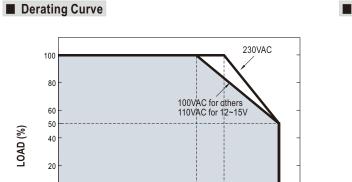
- · Consumer electronic devices
- Telecommunication devices
- · Office facilities
- Industrial equipments



ORDER NO.		GST220A12-R7B	GST220A15-R7B	GST220A20-R7B	GST220A24-F	R7B GST220A36-R7B	GST220A48-R7			
	SAFETY MODEL NO.	GST220A12	GST220A15	GST220A20	GST220A24	GST220A36	GST220A48			
OUTPUT	DC VOLTAGE Note.2		15V	20V	24V	36V	48V			
	RATED CURRENT	15A	13.4A	11A	9.2A	6.1A	4.6A			
	CURRENT RANGE	0 ~ 15A	0 ~ 13.4A	0 ~ 11A	0~9.2A	0 ~ 6.1A	0 ~ 4.6A			
	RATED POWER (max.)	180W	201W	220W	221W	219.6W	221W			
	RIPPLE & NOISE (max.) Note.3		100mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p			
	` '						±2.0%			
	VOLTAGE TOLERANCE Note.4		±5.0%	±4.0%	±3.0%	±2.0%				
	LINE REGULATION Note.5		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	LOAD REGULATION	±5.0%	±5.0%	±4.0%	±3.0%	±2.0%	±2.0%			
		•	2000ms, 50ms / 230VAC 2000ms, 50ms / 115VAC at full load							
	HOLD UP TIME (Typ.)	20ms / 230VAC 20ms / 115VAC at full load								
		85 ~ 264VAC 120 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.91 / 230VAC	PF>0.98 / 115VAC	98 / 115VAC at full load						
NPUT	EFFICIENCY (Typ.)	90%	90%	92%	93.5%	93%	94.5%			
	AC CURRENT (Typ.)	4A / 115VAC 2A	/ 230VAC	AC						
	INRUSH CURRENT (max.)	Cold start 95A / 115VAC 120A / 230VAC								
	LEAKAGE CURRENT(max.)	0.75mA / 240VAC								
PROTECTION	OVEDI OAD	105 ~ 135% rated output power								
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed								
		105 ~ 135% rated output voltage								
	OVER VOLTAGE	Protection type : Hiccup mode @ 10%load								
	OVER TEMPERATURE		<u> </u>		re goes down					
	WORKING TEMP.	Shut down o/p voltage, recovers automatically after temperature goes down -30 ~ +70 °C (Refer to "Derating Curve")								
ENVIRONMENT	WORKING HUMIDITY									
	STORAGE TEMP., HUMIDITY	20% ~ 90% RH non-condensing								
	,	-40 ~ +85°C, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT VIBRATION	±0.03% / °C (0~50°C)								
	SAFETY STANDARDS Note. 8	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes  UL62368-1, CSA C22.2 No.62368-1, TUV EN62368-1, BSMI CNS14336, CCC GB4943.1, PSE J62368-1, AS/NZS 60950.1, BIS IS13252, KC K60950-1, EAC TP TC 004 approved; SIRIM MS IEC60950-1 (optional) approved (UL62368-1, CSA C22.2 No.62368-1, TUV EN62368-1, BSMI CNS14336, CCC GB4943.1, PSE J62368-1, AS/NZS 60950.1 for GST220A36-R7B)								
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG: 2KVAC O/P-FG:SHORT								
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms	/500VDC / 25°C / 70%	6 RH						
		Parameter Standard Test Level / Note								
SAFETY & EMC (Note. 9)	EMC EMISSION	Conducted emission	CANICES	CISPR32),FCC PART 1 -3(B)/NMB-3(B),CNS1; C 020,MSIP KN32	5 / CISPR22 3438,GB17625.1	1 Class B				
		Radiated emission	CAN ICES EAC TP T	CISPR32),FCC PART 1 -3(B)/NMB-3(B),CNS13 C 020,MSIP KN32		1 Class B				
		Harmonic current	EN61000-	3-2,GB9254		Class A				
		Voltage flicker	EN61000-	3-3						
		Parameter	Standard			Test Level /Note				
		ESD	EN61000-	EN61000-4-2		Level 4, 15KV air; Level 4, 8KV contact				
		RF field susceptibility	EN61000-	EN61000-4-3		Level 2, 3V/m				
		EFT bursts	EN61000-	4-4		Level 2, 1KV				
		Surge susceptibility	EN61000-	4-5		Level 3, 1KV/Line-Line , 2KV/Line-FG				
		Conducted susceptibil				Level 2, 3V				
		Magnetic field immuni	•			Level 2, 3A/m				
		Voltage dips , interrup	tion EN61000-	4-11	>95% dip 0. 5 periods, 30% dip 25 periods >95% interruptions 250 periods					
OTHERS	MTBF	209.4K hrs min. MIL-HDBK-217F(25°C)								
	DIMENSION	210*85*46mm (L*W*H)								
	PACKING	1.1Kg; 12pcs/14.2Kg/0.81CUFT								
	PLUG	See page 4~5 ; Other type available by customer requested								
ONNECTOR	CABLE	See page 4~5; Other	,, ,	•						
	All parameters are specified	1 0	ted load, 25°C 70%	RH ambient.						

- 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 voltage. Please check the derating curve for more details.
   The demand for Malaysia safety is processed with the order no. GST220A ☐ -SIRIM by request. Please contact MEAN WELL for details.
   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 http://www.meanwell.com)
- \* Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





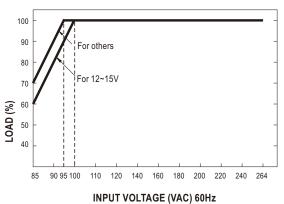
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AMBIENT TEMPERATURE (°C)

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#### ■ Static Characteristics

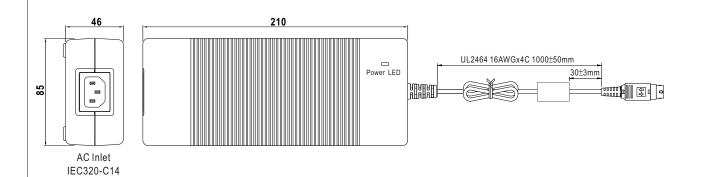


#### ■ Mechanical Specification

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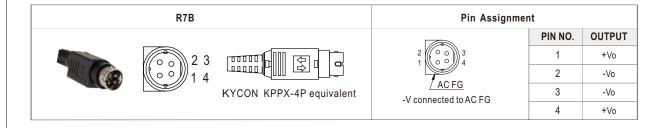
Case No. 961A Unit:mm



70 (HORIZONTAL)

## **■** 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: <a href="https://www.meanwell.com/upload/pdf/DC\_plug.pdf">https://www.meanwell.com/upload/pdf/DC\_plug.pdf</a>

## Example quick adapter accessory:



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

Tuning Fork Style	Type No.	А	В	С	Quick Adapter	
runnig i ork otylo	туре но.	OD	ID	L	Accessory	
	P1J	5.5	2.1	11.0	Available for 48V	
(Straight)	P1M	5.5	2.5	11.0	(Current rating: 7.5A max.)	
Min DIN 4 Din with Look (famala)	Type No.	Pin Assignment				
Min. DIN 4 Pin with Lock (female)		PIN No. Output				
	R7BF	1	+\	<b>′</b> o		
23 100000		2	-V	0	None	
14 [14]		3	-V	0	None	
KYCON KPJX-CM-4S equivalent		4	+\	<b>′</b> o		
DIN 5 Pin (male)	Type No.	Pin Assignment				
Diliv 3 Fili (iliale)		PIN No.	Outp	ut		
		1	-V	0		
(01, 30)	R1B	2	-V	0	None	
4250		3	+\/	<b>'</b> 0		
		4	-V	0		
		5	+\			
NEUTRIK XLR NC4FX equivalent	Type No.	Pin Assignment				
NEOTITII ALIT NOTI A equivalent	туре но.	PIN No.	Outp	out		
<b>A</b>	MIC4	1	+\/	<b>'</b> 0	No.	
		2	+V	<b>'</b> 0	None	
		3	-V			
		4	-Vo			
MOLEX 39-01-2060 (4.2mm) equivalent	Type No.	Pin Assignment				
, , , , , , , , , , , , , , , , , , , ,		PIN No.	Outp			
	C6P	1	+\/			
		2	+\/		None	
456		3	+\		Notice	
123		4	-V			
FG not connected to output connector		5	-V			
1 & not connected to output connector		6	-V	0		



AMD 4 400700 0 (C 25)	Type No.	Pin Assignment		Quick Adapter
AMP 1-480702-0 (6.35mm) equivalent		PIN No.	Output	Accessory
	C4P	1	+Vo	
		2	+Vo	None
		3	-Vo	None
FG not connected to output connector		4	-Vo	
Stripped and tipped loads	Type No.	Pin Assignment		
Stripped and tinned leads		PIN No.	Output	
(red,blue)  1  1  (red,blue)	by customer	1	+Vo	None
L1 (black,white)  Length of Land L1 by request  (MW's standard length, L: 25 mm, L1: 5 mm)		2	-Vo	

#### ■ Installation Manual

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