

Features

- Global certificates
- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14, Class I power unit

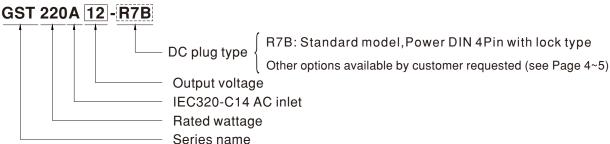
(except for 36V)

- 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
- 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 : https://www.meanwell.com/upload/pdf/DC_plug.pdf)
- 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

GTIN CODE

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

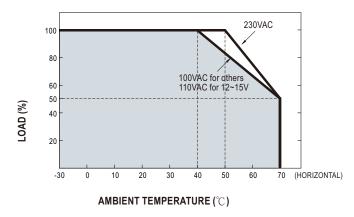


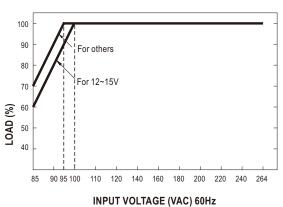
ORDER NO.		GST220A12-R7B	GST220A15-R7B	GST220A20-R7B	GST220A24-R7B	GST220A36-R7B	GST220A48-R7B			
	SAFETY MODEL NO.	GST220A12	GST220A15	GST220A20	GST220A24	GST220A36	GST220A48			
	DC VOLTAGE Note.2		15V	20V	24V	36V	48V			
OUTPUT	RATED CURRENT	15A	13.4A	11A	9.2A	6.1A	4.6A			
	CURRENT RANGE	0 ~ 15A	0 ~ 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	111	-	-	150mVp-p	200mVp-p				
	, ,	· · ·	100mVp-p	120mVp-p	+		200mVp-p			
	VOLTAGE TOLERANCE Note.4		±5.0%	±4.0%	±3.0%	±2.0%	±2.0%			
		±1.0%	±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 / 230\								
	HOLD UP TIME (Typ.)	20ms / 230VAC 20ms / 115VAC at full load								
	VOLTAGE RANGE Note.7	85 ~ 264VAC 120 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.91 / 230VAC	VAC PF>0.98 / 115VAC at full load							
NPUT	EFFICIENCY (Typ.)	90%	90%	92% 93.5% 93% 94.5%						
	AC CURRENT (Typ.)	4A / 115VAC 2A / 230VAC								
	INRUSH CURRENT (max.)	Cold start 95A / 115VAC 120A / 230VAC								
	LEAKAGE CURRENT(max.)	0.75mA / 240VAC								
	()	105 ~ 135% rated output power								
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed								
PROTECTION		105 ~ 135% rated output voltage								
FROILCHON	OVER VOLTAGE	Protection type : Hiccup mode @ 10%load								
	OVER TEMPERATURE	• • • • • • • • • • • • • • • • • • • •	<u> </u>	<u> </u>						
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down								
	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 (0~50°C)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	SAFETY STANDARDS Note. 8	UL62368-1, CSA C22.2 No.62368-1, TUV BS EN/EN62368-1, BSMI CNS15598-1, CCC GB4943.1, PSE J62368-1, AS/NZS 60950 BIS IS13252, KC K60950-1, EAC TP TC 004 approved (UL62368-1, CSA C22.2 No.62368-1, TUV EN62368-1, BSMI CNS15598-1, 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	% RH						
		Parameter	Parameter Standard			Test Level / Note				
	EMC EMISSION	Conducted emission	CAN ICE	N55032(CISPR32),FCC S-3(B)/NMB-3(B),CNS1 TC 020,MSIP KN32	Class B					
		Radiated emission	CAN ICE	N55032(CISPR32),FCC S-3(B)/NMB-3(B),CNS1 TC 020,MSIP KN32	Class B					
SAFETY &		Harmonic current	BS EN/E	N61000-3-2,GB9254	Class A					
EMC		Voltage flicker	BS EN/E	N61000-3-3						
(Note. 10)		BS EN/EN55035								
	EMC IMMUNITY	Parameter	Standard	t	Test Level /Note					
		ESD	BS EN/E	BS EN/EN61000-4-2		Level 4, 15KV air; Level 4, 8KV contact				
		RF field susceptibility	BS EN/E	N61000-4-3		Level 2, 3V/m				
		EFT bursts	BS EN/E	BS EN/EN61000-4-4		Level 2, 1KV				
		Surge susceptibility	BS EN/E	BS EN/EN61000-4-5		Level 3, 1KV/Line-Line , 2KV/Line-FG				
		Conducted susceptibi		N61000-4-6		Level 2, 3V				
		Magnetic field immun		BS EN/EN61000-4-8		Level 2, 3A/m				
		Voltage dips , interrup	DO ENVENIOR 4 44			>95% dip 0. 5 periods, 30% dip 25 periods >95% interruptions 250 periods				
OTHERS	MTBF	2006.1K hrs min. Telcordia SR-332 (Bellcore) ; 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; Othe	r type available by c	ustomer requested						
CONNECTOR	CABLE	See page 4~5; Othe	•	•						
NOTE	DC voltage: The output voltage Ripple & noise are measured at Tolerance: includes set up tolers Line regulation is measured for Length of set up time is measur Derating may be needed under	All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient. DC voltage: The output voltage set at point measure by plug terminal & 50% load. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1 µ F & 47 µ F capacitor. Tolerance: includes set up tolerance, line regulation, load regulation. 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 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).								
	The ambient temperature derating the power supply is considered EMC directives. For guidance of (as available on https://www.me Product Liability Disclaimer: Fo	as an independent unit n how to perform these anwell.com//Upload/PDI	, but the final equipme EMC tests, please ref F/EMI_statement_en.p	ent still need to re-confirm er to "EMI testing of com ldf)	that the whole systen ponent power supplies	n complies with the	ouoft).			



■ Derating Curve

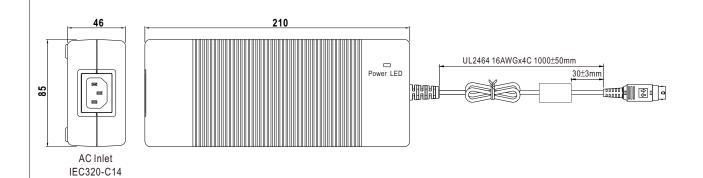
■ Static Characteristics





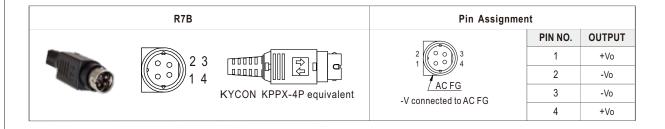
■ Mechanical Specification (Unit: mm, tolerance ± 1mm)

Case No. 961A



■ 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	
Tulling Folk Style	туре но.	OD	ID	L	Accessory	
A C C C C C C C C C C C C C C C C C C C	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				
		1	+\/	' 0		
2 3 1 4 Lanana	R7BF	2	-Ve	0	None	
14 100001		3	-Ve	0	None	
KYCON KPJX-CM-4S equivalent		4	+\/	' 0		
DIN 5 Pin (male)	Type No.	Pin Assignment				
Dily 31 iii (iiiaie)	туре но.	PIN No.	Outp	ut		
	R1B	1	-V	0		
(01, 3)		2	-Vo	0	None	
4 2 5		3	+V	' 0		
		4	-V	0		
		5	+\/	' o		
NEUTRIK XLR NC4FX equivalent	Type No.	Pin Assignment				
NEOTKIK ALK NO41 A equivalent		PIN No.	Outp	out		
, <u>a</u>	MIC4	1	+V	' 0		
		2	+V	o .	None	
30 20		3	-Vo	0		
		4	-Vo			
MOLEX 39-01-2060 (4.2mm) equivalent	Type No.	Pin Assignment				
WOLLX 00 01 2000 (4.2mm) equivalent		PIN No.	Outp			
		1	+V			
	C6P	2	+V			
450		3	+V		None	
123		4	-Vo			
50 4 4 4 4		5	-Vo			
FG not connected to output connector		6	-Vo			



AND 4 400700 0 (0 05)	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 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