























MS IEC60950-1



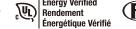


TPTC004 IS13252 K60950-1 TPTC004 (optional) (except for 36V) (except for 36V) (except for 36V)















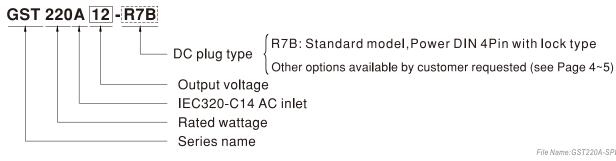
- · Global certificates
- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14, Class I power unit
- · Built-in active PFC function
- No load power consumption<0.15W
- · Energy efficiency Level VI
- · Comply with EISA 2007/DoE, NRCan, AU/NZ MEPS, EU ErP and CoC Version 5
- Protections: Short circuit / Overload / Over voltage /Over temperature
- Fanless design with -30~+70°C working temperature
- Fully enclosed plastic case
- LED indicator for power on
- 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



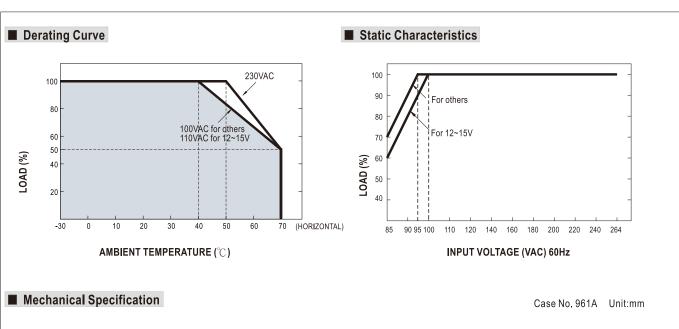
220W AC-DC High Reliability Industrial Adaptor

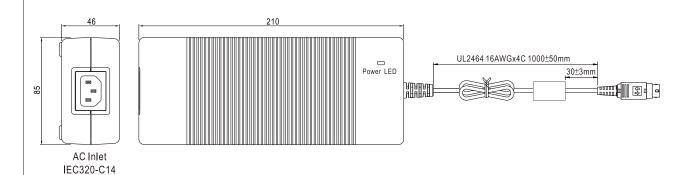
GST220A series

ORDER NO		GST220A12-R7B	GST220A15-R7B	GST220A20-R7B	GST220A24-R	7B GST220A36-R7B	GST220A48-R7E		
	SAFETY MODEL NO.	GST220A12	GST220A15	GST220A20	GST220A24	GST220A36	GST220A48		
	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		
ОИТРИТ	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		
	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%	±4.0%	±3.0%	±2,0%	±2,0%		
		2000ms, 50ms / 230V		ms / 115VAC at full loa		<u></u> ∴2.070			
	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 at full load							
NPUT	EFFICIENCY (Typ.)		90%	92%	93.5%	93%	94.5%		
11 01	AC CURRENT (Typ.)		/ 230VAC	92 /0	93.370	93 /0	34.370		
	INRUSH CURRENT (max.)	Cold start 60 / 115AC							
	LEAKAGE CURRENT(max.)	0.75mA / 240VAC	120A / 230VAC						
	LEARAGE CURRENT (IIIax.)								
PROTECTION	OVERLOAD	105 ~ 135% rated output power							
		Protection type: Hiccup mode, recovers automatically after fault condition is removed							
	OVER VOLTAGE	105 ~ 135% rated output voltage							
		Protection type: Hiccup mode @ 10%load Shut down o/p voltage, recovers automatically after temperature goes down							
	OVER TEMPERATURE			tically after temperatu	ire goes down				
	WORKING TEMP.	-30 ~ +70°C (Refer to							
	WORKING HUMIDITY	20% ~ 90% RH non-condensing							
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing							
	VIBRATION	±0.03% / °C (0~50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE	UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943, PSE J60950-1, AS/NZS 60950.1, BIS IS13252,							
		I/P-O/P:100M Ohms /							
	ISOLATION RESISTANCE								
	EMC EMISSION EMC IMMUNITY	Parameter Conducted emission	CAN ICES	CISPR32),FCC PART 1 i-3(B)/NMB-3(B),CNS1: C 020.MSIP KN32	15 / CISPR22				
		Radiated emission	CAN ICES	EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1 EAC TP TC 020,MSIP KN32		Class B	s B		
SAFETY &		Harmonic current	EN61000-	EN61000-3-2,GB9254		Class A			
MC Note. 9)		Voltage flicker	EN61000	EN61000-3-3					
(11010.0)		Parameter	Standard			Test Level /Note			
		ESD	EN61000-	EN61000-4-2 Level 4, 15KV air; Level 4, 8KV		8KV contact			
		RF field susceptibility	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-FC			
		Conducted susceptibili	ty EN61000	-4-6		Level 2, 3V			
		Magnetic field immunit	y EN61000	-4-8		Level 2, 3A/m			
		Voltage dips , interrupt		-4-11		>95% dip 0. 5 periods, 30% dip 25 perio >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/0.96CUFT							
	PLUG	See page 4~5; Other type available by customer requested							
ONNECTOR		See page 4~5; Other type available by customer requested							
CONNECTOR	CABLE		rs are specified at 230VAC input, rated load, 25°C 70% RH ambient. The output voltage set at point measure by plug terminal & 50% load. se are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor. cludes set up tolerance, line regulation, load regulation. on is measured from low line to high line at rated load. tup time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.						

- 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)







■ DC output plug

O Standard plug: R7B

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



Optional DC plug:

Min. DIN 3 Pin with Lock (male)	Type No.	Pin Assignment		
Mill. DIN 31 III With Lock (male)	туре по.	PIN No.	Output	
	R6B	1	+Vo	
		2	-Vo	
KYCON KPPX-3P equivalent		3	+Vo	
Min DIN 4 Din with Look (fomolo)	Type No.	Pin Assignment		
Min. DIN 4 Pin with Lock (female)		PIN No.	Output	
	R7BF	1	+Vo	
2 3 TUUTUU 1		2	-Vo	
2 3 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3	-Vo	
KYCON KPJX-CM-4S equivalent		4	+Vo	
DIN 5 Pin (male)	Type No	Pin Assignment		
Dirivor iii (iiiaie)	Type No.	PIN No.	Output	
		1	-Vo	
	DAD	2	-Vo	
	R1B	3	+Vo	
		4	-Vo	
		5	+Vo	
NEUTRIK XLR NC4FX equivalent	Type No	Pin Assignment		
NEOTIVIN ALIV NO41 A equivalent	Type No.	PIN No.	Output	
	MIC4	1	+Vo	
		2	+Vo	
0000		3	-Vo	
		4	-Vo	
MOLEX 39-01-2060 (4.2mm) equivalent	Type No.	Pin Assignment		
WOLEX 03-01-2000 (4.2mm) equivalent		PIN No.	Output	
	C6P	1	+Vo	
		2	+Vo	
456		3	+Vo	
456		4	-Vo	
FG not connected to output connector		5	-Vo	
1 6 not connected to output connector		6	-Vo	
AMD 4 400700 0 (0 05)	Type No.	Pin Assignment		
AMP 1-480702-0 (6.35mm) equivalent		PIN No.	Output	
	C4P	1	+Vo	
4 3 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2	+Vo	
		3	-Vo	
FG not connected to output connector		4	-Vo	



Ctuins and and tins and lands	Type No.	Pin Assignment		
Stripped and tinned leads		PIN No.	Output	
L (red,blue) 1 2	by customer	1	+Vo	
L1 (black,white) Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm)	by customer	2	-Vo	

■ Installation Manual

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