

## ■ Features

- **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, Korea K-MEPS, 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

## ■ Applications

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

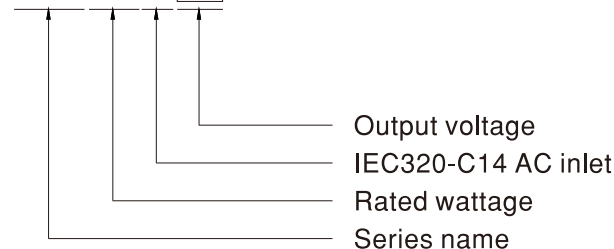
## ■ Description

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.

With the efficiency up to 93.5% 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

**GST 220A 24 - CIN**



**SPECIFICATION**

ORDER NO.		GST220A24-CIN		
OUTPUT	SAFETY MODEL NO.	GST220A24		
	DC VOLTAGE <span style="float:right">Note.2</span>	24V		
	RATED CURRENT	9.2A		
	CURRENT RANGE	0 ~ 9.2A		
	RATED POWER (max.)	221W		
	RIPPLE & NOISE (max.) <span style="float:right">Note.3</span>	150mVp-p		
	VOLTAGE TOLERANCE <span style="float:right">Note.4</span>	±3.0%		
	LINE REGULATION <span style="float:right">Note.5</span>	±1.0%		
	LOAD REGULATION	±3.0%		
	SETUP, RISE TIME <span style="float:right">Note.6</span>	2000ms, 50ms / 230VAC      2000ms, 50ms / 115VAC at full load		
HOLD UP TIME (Typ.)	20ms / 230VAC      20ms / 115VAC at full load			
INPUT	VOLTAGE RANGE <span style="float:right">Note.7</span>	85 ~ 264VAC      120 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF>0.91 / 230VAC      PF>0.98 / 115VAC at full load		
	EFFICIENCY (Typ.)	93.5%		
	AC CURRENT (Typ.)	4A / 115VAC      2A / 230VAC		
	INRUSH CURRENT (max.)	Cold start 60 / 115AC      120A / 230VAC		
LEAKAGE CURRENT(max.)	0.75mA / 240VAC			
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		
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down		
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20% ~ 90% RH non-condensing		
	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 & EMC (Note. 9)	SAFETY STANDARDS <span style="float:right">Note. 8</span>	UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943, PSE J60950-1, AS/NZS 60950.1, BIS IS13252, KC K60950-1, EAC TP TC 004 approved; SIRIM MS IEC60950-1 (optional) approved (UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943, PSE J60950-1, 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		
	EMC EMISSION	Parameter	Standard	Test Level / Note
		Conducted emission	EN55032(CISPR32), FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B), CNS13438, GB17625.1 EAC TP TC 020, MSIP KN32	Class B
		Radiated emission	EN55032(CISPR32), FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B), CNS13438, GB17625.1 EAC TP TC 020, MSIP KN32	Class B
		Harmonic current	EN61000-3-2, GB9254	Class A
	Voltage flicker	EN61000-3-3	-----	
	EMC IMMUNITY	Parameter	Standard	Test Level / Note
		ESD	EN61000-4-2	Level 4, 15KV air; Level 4, 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-FG	
Conducted susceptibility		EN61000-4-6	Level 2, 3V	
Magnetic field immunity		EN61000-4-8	Level 2, 3A/m	
Voltage dips, interruption	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/0.96CUFT		
CONNECTOR	PLUG	See page 3		
	CABLE	See page 3		
NOTE	<p>1. All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.</p> <p>2. DC voltage: The output voltage set at point measure by plug terminal &amp; 50% load.</p> <p>3. Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf &amp; 47µf capacitor.</p> <p>4. Tolerance: includes set up tolerance, line regulation, load regulation.</p> <p>5. Line regulation is measured from low line to high line at rated load.</p> <p>6. 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.</p> <p>7. Derating may be needed under low input voltage. Please check the derating curve for more details.</p> <p>8. The demand for Malaysia safety is processed with the order no. GST220A □ -SIRIM by request. Please contact MEAN WELL for details.</p> <p>9. 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 <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</p>			