IS13252 KC62368-1 TPTC004 UL62368-1 BS EN/EN62368-1 J62368-1 CNS14336 GB4943.1

IEC62368-1

Energy Verified
Rendement
Énergétique Vérifié

ECO Household Automate Industrial Security Network Telecom

Features

- **Global certificates**
- **450W peak power(3 sec.)**
- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14,Class I power unit
- Built-in active PFC function
- No load power consumption<0.5W
- **Energy efficiency Level VI**
- Comply with international energy-saving standards
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fanless design with -30~+70℃ working temperature
- Fully enclosed plastic case
- LED indicator for power on
- 3 years warranty

Applications

- Consumer electronic devices
- Telecommunication devices
- Office facilities
- Industrial equipments
- 3D printer
- Game console
- Vision mixer
- Power sourcing equipment of PoE

Description

GST360A is a highly reliable, 360W 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 85 VAC to 264VAC. The entire series supplies different models with output voltages ranging between 12VDC and 55VDC that can satisfy the demands for various types of consumer electronic devices.

With the efficiency up to 95.0% and the extremely low no-load power consumption below 0.5W, GST360A is compliant with USA EISA 2007/DoE,Canada NRCan. 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. GST360A is certified for the international safety regulations.

Model Encoding

GST 360A 12 -C8P

- DC connector type
  - C8P: Standard model, 8 pin connector for 12~15V
  - C6P: Standard model, 6 pin connector for 24~55V
  - Other options available by customer requested (see Page 4)
- Output voltage
- IEC320-C14 AC inlet
- Rated wattage
- Series name

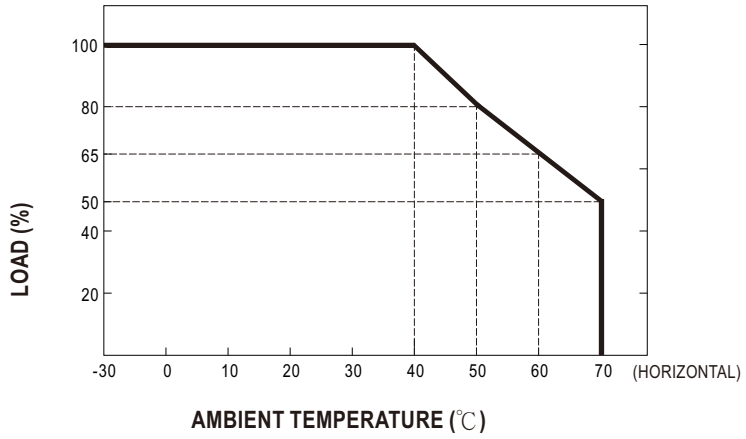
SPECIFICATION

ORDER NO.			GST360A12-C8P	GST360A15-C8P	GST360A24-C6P	GST360A36-C6P	GST360A48-C6P	GST360A55-C6P
OUTPUT	SAFETY MODEL NO.		GST360A12	GST360A15	GST360A24	GST360A36	GST360A48	GST360A55
	DC VOLTAGE Note.2		12V	15V	24V	36V	48V	55V
	RATED CURRENT		27.5A	22.7A	15A	10A	7.5A	6.55A
	CURRENT RANGE		0 ~ 27.5A	0 ~ 22.7A	0 ~ 15A	0 ~ 10A	0 ~ 7.5A	0 ~ 6.55A
	POWER	Rated (max.)	330W	340.5W	360W	360W	360W	360W
		Peak (3sec.)	415W	425W	450W	450W	450W	450W
	RIPPLE & NOISE (max.) Note.3		120mVp-p	120mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p
	VOLTAGE TOLERANCE Note.4		±5.0%	±5.0%	±3.0%	±2.0%	±2.0%	±2.0%
	LINE REGULATION Note.5		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION		±5.0%	±5.0%	±3.0%	±2.0%	±2.0%	±2.0%
	SETUP, RISE TIME Note.6		2000ms, 50ms / 230VAC 2000ms, 50ms / 115VAC at full load					
	HOLD UP TIME (Typ.)		8ms / 230VAC 8ms / 115VAC at full load					
INPUT	VOLTAGE RANGE Note.7		85 ~ 264VAC 120 ~ 370VDC					
	FREQUENCY RANGE		47 ~ 63Hz					
	POWER FACTOR (Typ.)		PF>0.95 / 230VAC PF>0.98 / 115VAC at full load					
	EFFICIENCY (Typ.)		91%	92%	93%	94%	95%	95%
	AC CURRENT (Typ.)		3.8A / 115VAC 2A / 230VAC					
	INRUSH CURRENT (max.)		Cold start 95A / 115VAC 120A / 230VAC					
	LEAKAGE CURRENT(max.)		1.5mA / 240VAC					
PROTECTION	OVERLOAD		135 ~ 155% rated output power					
			Protection type : Hiccup mode, recovers automatically after fault condition is removed for 12 ~ 36V Shut down o/p voltage, re-power on to recover for 48V and 55V					
	OVER VOLTAGE		105 ~ 135% rated output voltage					
			Protection type : Shut down o/p voltage, re-power on to recover					
	OVER TEMPERATURE		Shut down o/p voltage, re-power on to recover					
ENVIRONMENT	WORKING TEMP.		-30 ~ +70℃ (Refer to "Derating Curve")					
	WORKING HUMIDITY		20% ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY		-40 ~ +85℃, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT		±0.03% / ℃ (0~40℃)					
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
	OPERATING ALTITUDE Note. 8		5000 meters					
	OVER VOLTAGE CATEGORY		II ; According to UL62368-1, BS EN/EN62368-1; altitude up to **5000 meters**					
SAFETY & EMC (Note. 9)	SAFETY STANDARDS		UL62368-1, CSA C22.2 No.62368-1, Dekra BS EN/EN62368-1, BSMI CNS14336, CCC GB4943, PSE J62368-1, BIS IS13252, KC 62368-1, EAC TP TC 004 approved					
	WITHSTAND VOLTAGE		I/P-O/P: 3KVAC I/P-F/G: 2KVAC O/P-F/G: Short					
	ISOLATION RESISTANCE		I/P-O/P:100M Ohms / 500VDC / 25℃/ 70% RH					
	EMC EMISSION		**Parameter**	**Standard**	**Test Level / Note**			
			Conducted emission	BS EN/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	BS EN/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	BS EN/EN61000-3-2,GB9254	Class A			
			Voltage flicker	BS EN/EN61000-3-3	-------			
	EMC IMMUNITY		**Parameter**	**Standard**	**Test Level /Note**			
			ESD	BS EN/EN61000-4-2	Level 4, 15KV air; Level 4, 8KV contact			
			RF field susceptibility	BS EN/EN61000-4-3	Level 2, 3V/m			
			EFT bursts	BS EN/EN61000-4-4	Level 2, 1KV			
			Surge susceptibility	BS EN/EN61000-4-5	Level 3, 1KV/Line-Line , 2KV/Line-FG			
			Conducted susceptibility	BS EN/EN61000-4-6	Level 2, 3V			
			Magnetic field immunity	BS EN/EN61000-4-8	Level 2, 3A/m			
			Voltage dips , interruption	BS EN/EN61000-4-11	＞95% dip 0. 5 periods, 30% dip 25 periods, ＞95% interruptions 250 periods			
OTHERS	MTBF		2068.5K hrs min. Telcordia SR-332 (Bellcore) ; 269K hrs min. MIL-HDBK-217F (25℃)					
	DIMENSION		220*95*46mm (L*W*H)					
	PACKING		1.4Kg; 8pcs/12Kg/0.82CUFT					
CONNECTOR	PLUG		See page 4 ; Other type available by customer requested					
	CABLE		See page 4 ; Other type available by customer requested					

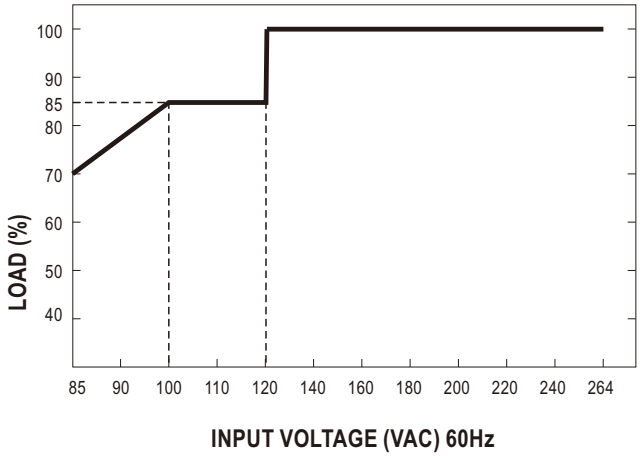
NOTE

1. All parameters are specified at 230VAC input, rated load, 25℃ 70% RH ambient.
2. DC voltage: The output voltage set at point measure by plug terminal & 50% load.
3. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1μF & 47μF capacitor.
4. Tolerance: includes set up tolerance, line regulation, load regulation.
5. Line regulation is measured from low line to high line at rated load.
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.
7. Derating may be needed under low input voltage. Please check the derating curve for more details.
8. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).
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.”

■ Derating Curve

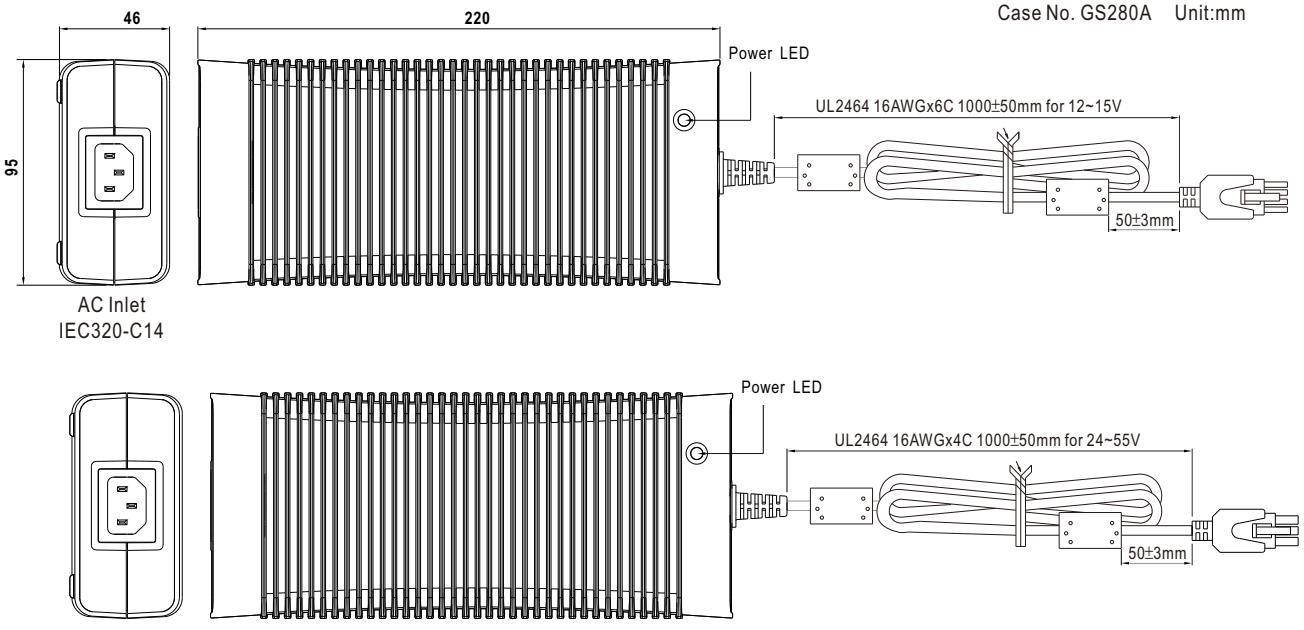


■ Static Characteristics



■ Mechanical Specification

Case No. GS280A Unit:mm



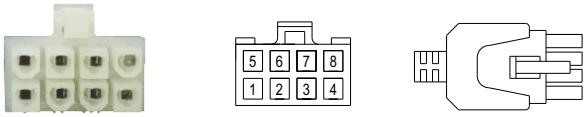
■ DC output plug

Standard models(In stock): -V connected to AC FG

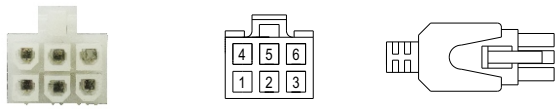
Optional models(By request): -V not connected to AC FG

◎ Standard plug:

C8P : MOLEX 39-01-2080 equivalent for 12~15V

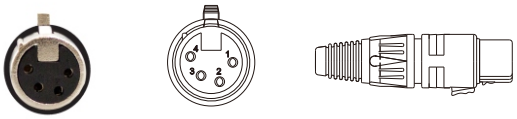
C8P	Pin Assignment	
	PIN NO.	OUTPUT
	1,2,3,4	+Vo
	5,6,7,8	-Vo

C6P : MOLEX 39-01-2060 equivalent for 24~55V

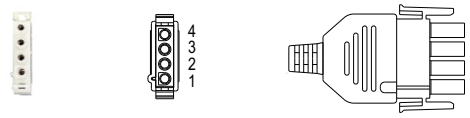
C6P	Pin Assignment	
	PIN NO.	OUTPUT
	1,2,3	+Vo
	4,5,6	-Vo

◎ Optional DC plug:

MIC4: NEUTRIK XLR NC4FX equivalen for 36~55V

MIC4	Type No.	Pin Assignment	
		PIN No.	Output
	MIC4	1	+Vo
		2	+Vo
		3	-Vo
		4	-Vo

C4P: AMP 1-480702-0 (6.35mm) equivalent for 36~55V

C4P	Type No.	Pin Assignment	
		PIN No.	Output
	C4P	1	+Vo
		2	+Vo
		3	-Vo
		4	-Vo

ALL PSU LTD, Unit D6 Laser Quay, Culpeper Close
Medway City Estate, Rochester, Kent, ME2 4HU
Tel: 01634 725527, Email: sales@allpsu.co.uk, Web: www.allpsu.co.uk