



■ 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 <0.5W

• Energy efficiency Level VI

- Comply with EISA 2007/DoE, NRCan, AU/NZ MEPS, EU ErP
- 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

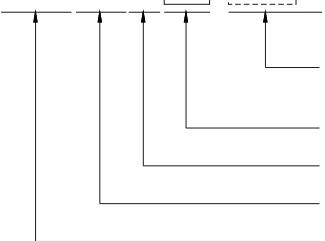
■ Description

GST280A is a highly reliable, 280W 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 48VDC that can satisfy the demands for various types of consumer electronic devices.

With the efficiency up to 94% and the extremely low no-load power consumption below 0.5W, GST280A is compliant with USA EISA 2007/DoE, Canada NRCan, Australia and New Zealand MEPS, Korea K-MEPS, EU ErP. 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. GST280A is certified for the international safety regulations.

■ Model Encoding

GST 280A [12]-C6P



DC connector type	C6P: Standard model, 6 pin connector Other options available by customer requested (see Page 4)
Output voltage	
IEC320-C14 AC inlet	
Rated wattage	
Series name	

SPECIFICATION

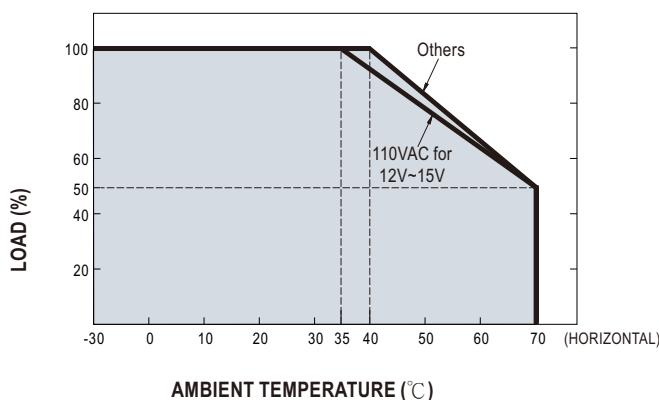
ORDER NO.	GST280A12-C6P	GST280A15-C6P	GST280A20-C6P	GST280A24-C6P	GST280A48-C6P					
OUTPUT	SAFETY MODEL NO.	GST280A12	GST280A15	GST280A20	GST280A24					
	DC VOLTAGE Note.2	12V	15V	20V	24V					
	RATED CURRENT	21A	17A	13A	11.67A					
	CURRENT RANGE	0 ~ 21A	0 ~ 17A	0 ~ 13A	0 ~ 11.67A					
	RATED POWER (max.)	252W	255W	260W	280.08W					
	RIPPLE & NOISE (max.) Note.3	120mVp-p	120mVp-p	150mVp-p	200mVp-p					
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±4.0%	±3.0%					
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%					
	LOAD REGULATION	±5.0%	±5.0%	±4.0%	±3.0%					
INPUT	SETUP, RISE TIME Note.6	2000ms, 20ms / 230VAC	2000ms, 20ms / 115VAC	at full load						
	HOLD UP TIME (Typ.)	16ms / 230VAC	16ms / 115VAC	at full load						
PROTECTION	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.)	89.5%	90%	92%	93%					
	AC CURRENT (Typ.)	3A / 115VAC	1.5A / 230VAC							
	INRUSH CURRENT (max.)	Cold start 95A / 115VAC	120A / 230VAC							
ENVIRONMENT	LEAKAGE CURRENT(max.)	1.5mA / 240VAC								
	OVERLOAD	105 ~ 135% rated output power								
		Protection type : Hiccup mode, recovers automatically after fault condition is removed								
PROTECTION	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°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 (0~40°C)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
SAFETY & EMC (Note. 9)	SAFETY STANDARDS Note.8	UL62368-1, CSA C22.2 No.62368-1, TUV BS EN/EN62368-1, BSMI CNS14336, CCC GB4943.1, PSE J60950-1, AS/NZS 60950.1, BIS IS13252, KC K60950-1, EAC TP TC 004 approved; SIRIM MS IEC60950-1 (optional) 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°C / 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						
	EMC IMMUNITY	Voltage flicker	BS EN/EN61000-3-3	-----						
		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						
OTHERS	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							
	MTBF	181.24Khrs min. MIL-HDBK-217F(25°C)								
CONNECTOR	DIMENSION	220*95*46mm (L*W*H)								
	PACKING	1.25Kg; 12pcs/16Kg/1.09CUFT								
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°C 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 demand for Malaysia safety is processed with the order no. GST280A □ -SIRIM by request. Please contact MEAN WELL for details. 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 http://www.meanwell.com)									
	※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx									



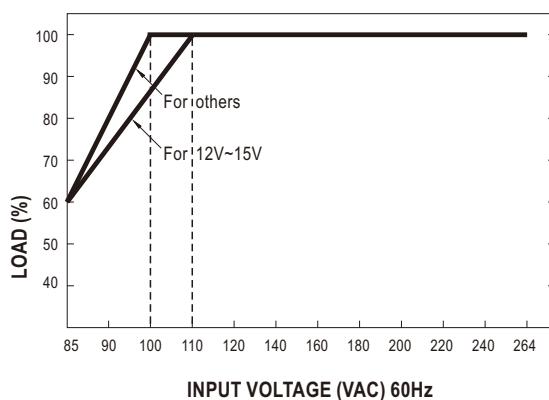
280W AC-DC High Reliability Industrial Adaptor

GST280A series

■ Derating Curve

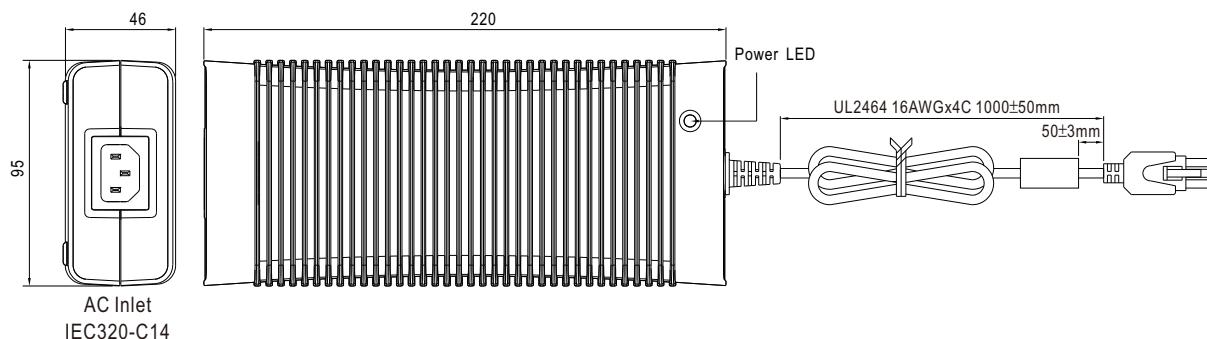


■ Static Characteristics



■ Mechanical Specification

Case No. GS280A Unit:mm



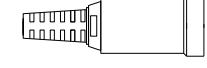
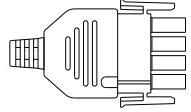
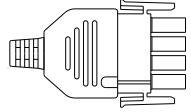
■ DC output plug

◎ Standard plug: C6P : MOLEX 39-01-2060 equivalent

C6P		Pin Assignment	
Pinout Diagram	Pinout Diagram	Pin	Assignment
		1,2,3	+Vo
		4,5,6	-Vo

-V connected to AC FG

◎ Optional DC plug:

Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment	
		PIN No.	Output
   KYCON KPJX-CM-4S equivalent	R7BF	1	+Vo
		2	-Vo
		3	-Vo
		4	+Vo
NEUTRIK XLR NC4FX equivalent	Type No.	Pin Assignment	
		PIN No.	Output
		1	+Vo
		2	+Vo
AMP 1-480702-0 (6.35mm) equivalent	Type No.	Pin Assignment	
		PIN No.	Output
		1	+Vo
		2	+Vo
  	C4P	3	-Vo
		4	-Vo
		1	+Vo
		2	+Vo
  	C4P	3	-Vo
		4	-Vo

■ Installation Manual

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