



User's Manual



Video



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## 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

## GTIN CODE

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

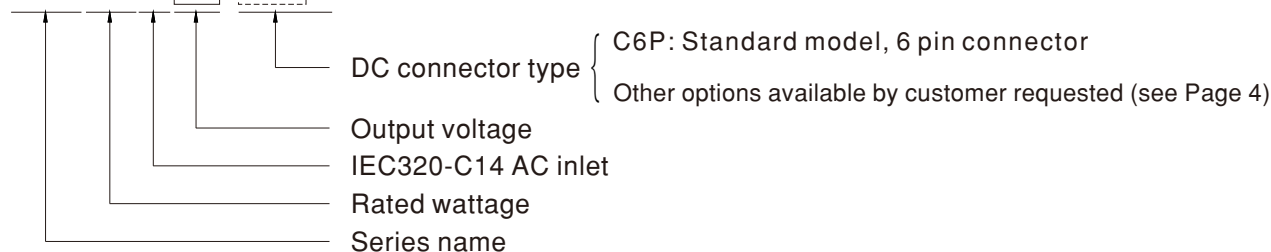
## Description

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

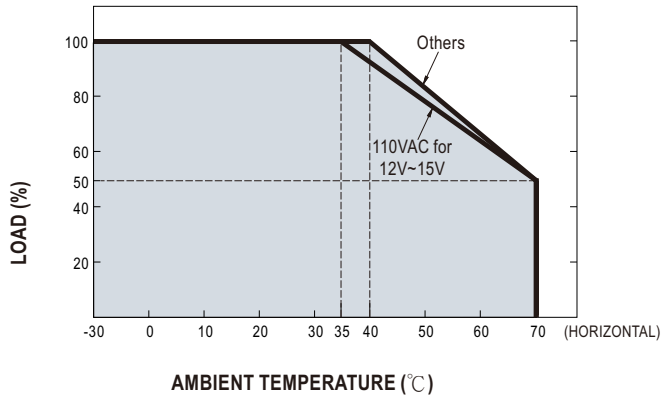
**GST 280A 12 -C6P**



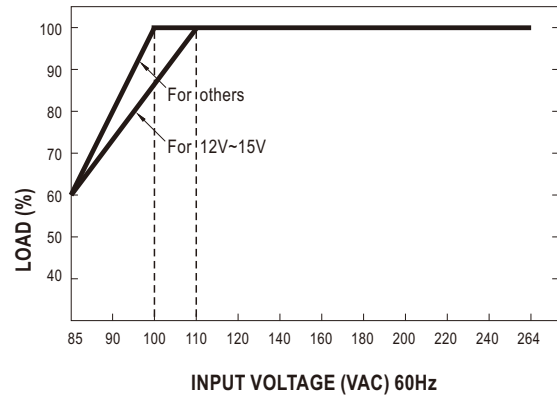
## SPECIFICATION

ORDER NO.		GST280A12-C6P	GST280A15-C6P	GST280A20-C6P	GST280A24-C6P	GST280A48-C6P
OUTPUT	SAFETY MODEL NO.	GST280A12	GST280A15	GST280A20	GST280A24	GST280A48
	DC VOLTAGE <span>Note.2</span>	12V	15V	20V	24V	48V
	RATED CURRENT	21A	17A	13A	11.67A	5.84A
	CURRENT RANGE	0 ~ 21A	0 ~ 17A	0 ~ 13A	0 ~ 11.67A	0 ~ 5.84A
	RATED POWER (max.)	252W	255W	260W	280.08W	280.32W
	RIPPLE & NOISE (max.) <span>Note.3</span>	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p
	VOLTAGE TOLERANCE <span>Note.4</span>	± 5.0%	± 5.0%	± 4.0%	± 3.0%	± 2.0%
	LINE REGULATION <span>Note.5</span>	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%
	LOAD REGULATION	± 5.0%	± 5.0%	± 4.0%	± 3.0%	± 2.0%
	SETUP, RISE TIME <span>Note.6</span>	2000ms, 20ms / 230VAC      2000ms, 20ms / 115VAC at full load				
	HOLD UP TIME (Typ.)	16ms / 230VAC      16ms / 115VAC at full load				
INPUT	VOLTAGE RANGE <span>Note.7</span>	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%	94%
	AC CURRENT (Typ.)	3A / 115VAC      1.5A / 230VAC				
	INRUSH CURRENT (max.)	Cold start   95A / 115VAC    120A / 230VAC				
	LEAKAGE CURRENT(max.)	1.5mA / 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 : 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% / °C (0~40℃)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY & EMC (Note. 10)	SAFETY STANDARDS <span>Note. 8</span>	UL62368-1, CSA C22.2 No.62368-1, TUV BS EN/EN62368-1, BSMI CNS15598-1, CCC GB4943.1, PSE J62368-1, AS/NZS 62368.1, BIS IS13252, KC K60950-1, 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),CNS15936,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),CNS15936,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	1625.8K hrs min.      Telcordia SR-332 (Bellcore) ; 181.2K hrs min.      MIL-HDBK-217F (25℃)				
	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℃ 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 0.1 μ F & 47 μ F 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." (as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> ) ※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a>					

### Derating Curve



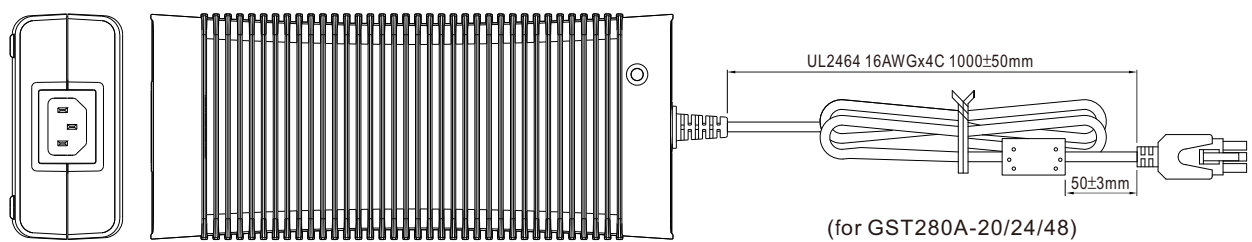
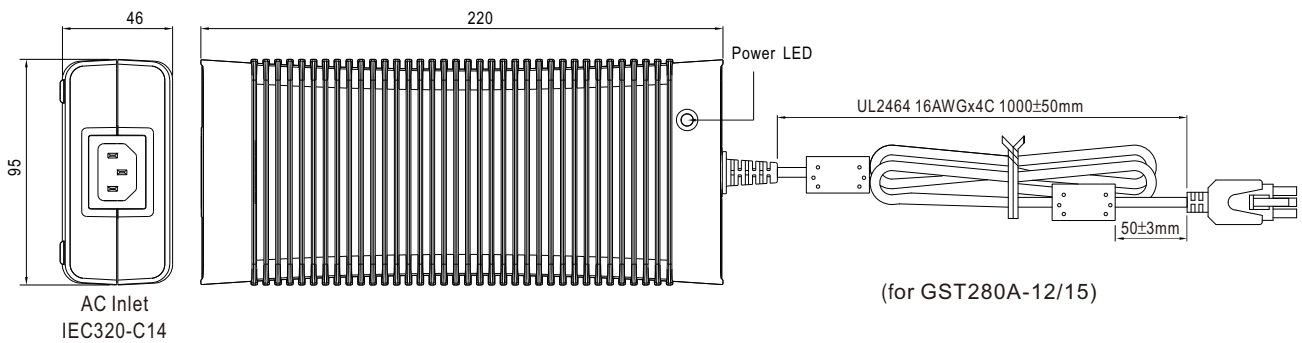
### Static Characteristics



### Mechanical Specification

(Unit: mm , tolerance  $\pm 1$ mm)

Case No. GS280A





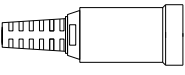


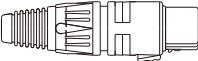


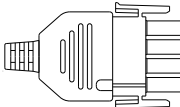
### DC output plug

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

C6P			Pin Assignment	
			PIN NO.	OUTPUT
			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
  	MIC4	1	+Vo
		2	+Vo
		3	-Vo
		4	-Vo
AMP 1-480702-0 (6.35mm) equivalent	Type No.	Pin Assignment	
		PIN No.	Output
  	C4P	1	+Vo
		2	+Vo
		3	-Vo
		4	-Vo

## ■ Installation Manual

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

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