



Energy Verified  
Rendement  
Énergétique Vérifié



**CB** **FCC** **CE**

## ■ Features

- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- 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
- Class I power (with earth pin)
- 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

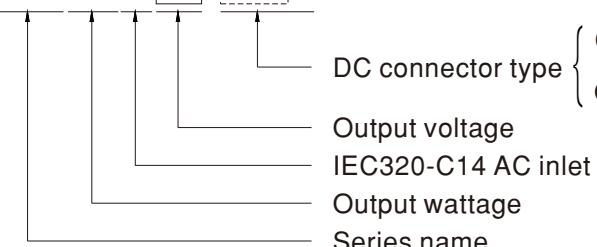
## ■ Description

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 and 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. GST280A is certified for the international safety regulations.

## ■ Model Encoding

**GST 280A [12]-C6P**



DC connector type { C6P: Connector for standard model, MOLEX 6 pin connector  
Optional connector type available by customer requested

Output voltage

IEC320-C14 AC inlet

Output wattage

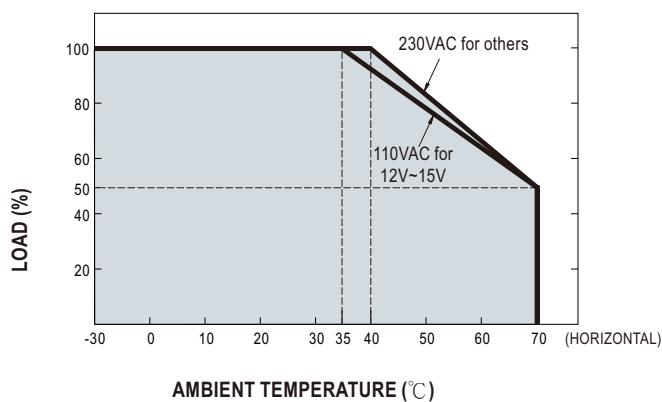
Series name



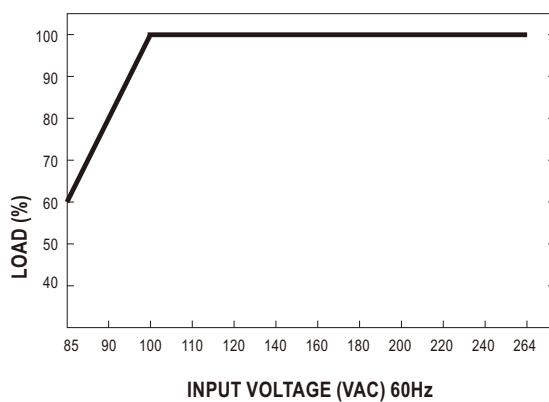
## SPECIFICATION

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		
	RIPLLE & NOISE (max.) Note.3	120mVp-p	120mVp-p	150mVp-p	280mVp-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.)	120A / 230VAC					
	LEAKAGE CURRENT(max.)	1.5mA / 240VAC					
ENVIRONMENT	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					
SAFETY & EMC (Note. 8)	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					
	TEMP. COEFFICIENT	±0.03% / °C (0~40°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
OTHERS	SAFETY STANDARDS	UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943, PSE J60950-1, AS/NZS 60950.1 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	Compliance to EN55022 class B, EN61000-3-2,3, FCC PART 15 / CISPR22 class B, CAN ICES-3(B)/NMB-3(B), CNS13438 class B, GB9254, GB17625.1					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A					
CONNECTOR	MTBF	181.24Khrs min. MIL-HDBK-217F(25°C)					
	DIMENSION	220*95*46mm (L*W*H)					
	PACKING	1.25Kg; 12pcs/16Kg/1.27CUFT					
	PLUG	See page 3 ; Other type available by customer requested					
NOTE	CABLE	See page 3 ; Other type available by customer requested					
		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 0.1uf & 47uf 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 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> )					

## ■ Derating Curve

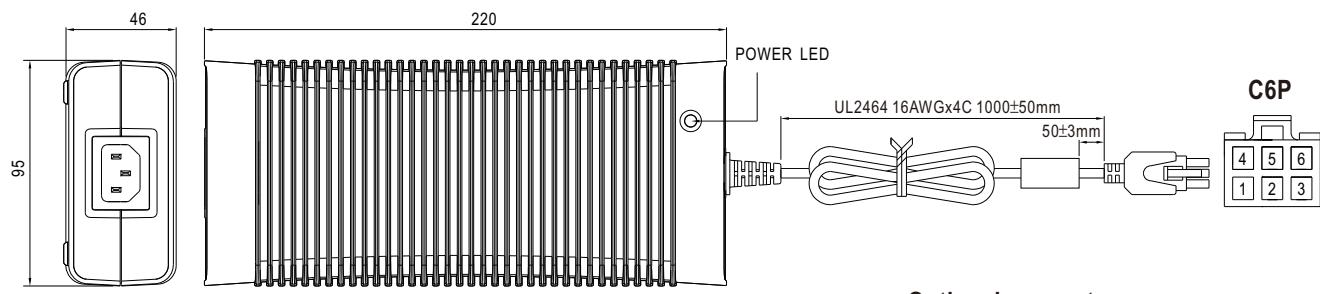


## ■ Static Characteristics

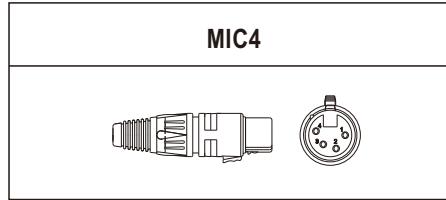
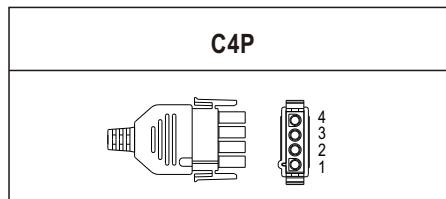
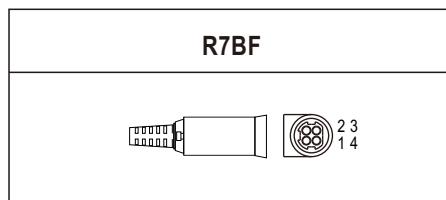


## ■ Mechanical Specification

Case No. GS280A Unit:mm



Optional connectors:

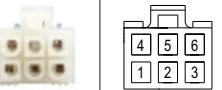
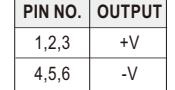


### ■ Connector Assignment

#### ◎ Standard connector: C6P

Output connector : MOLEX 39-01-2060 (4.2mm) equivalent

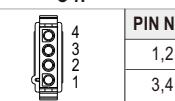
Mating connector (customer side, not provided with the power supply) : MOLEX 39-01-2061(4.2mm) equivalent

C6P		PIN NO.	OUTPUT
		1,2,3	+V
		4,5,6	-V connected to AC FG

#### ◎ Optional connectors: C4P, R7BF, MIC4

① Output connector : Housing AMP 1-480702-0 with inner pin 9848TP (6.35mm) equivalent

Mating connector (customer side, not provided with the power supply) : Housing AMP 1-480703-0 with inner pin 9848TR (6.35mm) equivalent

C4P		PIN NO.	OUTPUT
		1,2	+V
		3,4	-V connected to AC FG

② Output connector : KYCON KPJX-CM-4S equivalent

Mating connector (customer side, not provided with the power supply) :KYCON KPPX-4P equivalent

R7BF		PIN NO.	OUTPUT
		1,4	+V
		2,3	-V connected to AC FG

③ Output connector : NEUTRIK XLR NC4FX equivalent

Mating connector (customer side, not provided with the power supply) :NEUTRIK XLR NC4MX equivalent

MIC4		PIN NO.	OUTPUT
		1,2	+V
		3,4	-V connected to AC FG

### ■ Installation Manual

Please refer to : <http://www.meanwell.com/webnet/search/InstallationSearch.html>