



■ Features

- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- Built-in active PFC function
- No load power consumption<0.15W
- **Energy efficiency Level VI**
- Comply with EISA 2007/DoE,NRCan, AU/NZ MEPS,EU ErP and CoC Version 5
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- Fanless design with -30~+70°C working temperature
- LED indicator for power on
- 3 years warranty

■ Applications

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

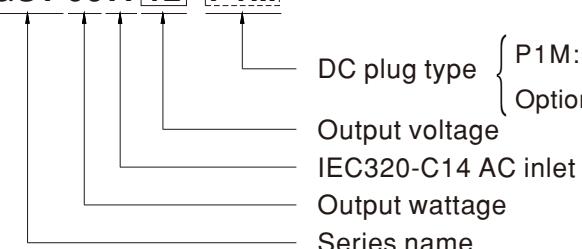
■ Description

GST90A is a highly reliable, 90W 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 90VAC 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 91% and the extremely low no-load power consumption below 0.15W, GST90A is compliant with USA EISA 2007/DoE, Canada NRCan, Australia and New Zealand 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. GST90A is certified for the international safety regulations.

■ Model Encoding

GST 90 A [12] -P1M



DC plug type **P1M:** Plug for standard model, 2.5mm x 5.5mm, c+, tuning fork type
 Optional plug type available by customer requested

Output voltage

IEC320-C14 AC inlet

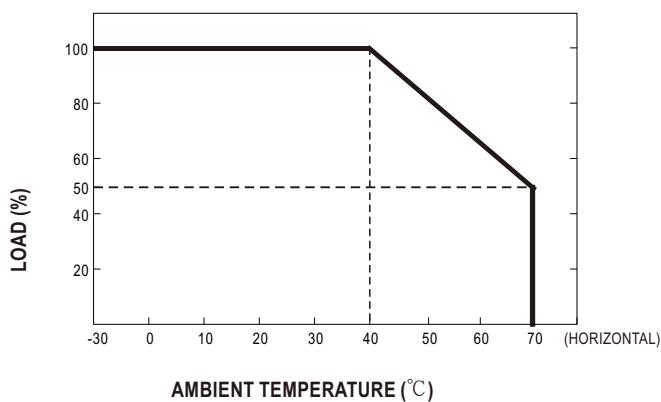
Output wattage

Series name

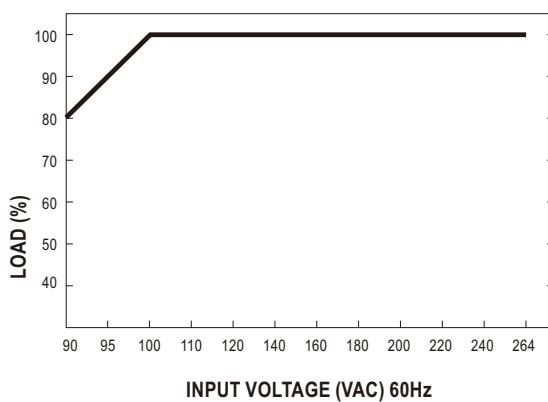
SPECIFICATION

ORDER NO.	GST90A12-P1M		GST90A15-P1M		GST90A19-P1M		GST90A24-P1M		GST90A48-P1M							
OUTPUT	SAFETY MODEL NO.	GST90A12	GST90A15	GST90A19	GST90A24	GST90A48										
	DC VOLTAGE Note.2	12V	15V	19V	24V	48V										
	RATED CURRENT	6.67A	6A	4.74A	3.75A	1.87A										
	CURRENT RANGE	0 ~ 6.67A	0 ~ 6A	0 ~ 4.74A	0 ~ 3.75A	0 ~ 1.87A										
	RATED POWER (max.)	80W	90W	90W	90W	90W										
	RIPPLE & NOISE (max.) Note.3	120mVp-p	150mVp-p	180mVp-p	200mVp-p	240mVp-p										
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±4.0%	±3.0%	±2.5%										
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%										
	LOAD REGULATION	±5.0%	±5.0%	±4.0%	±3.0%	±2.5%										
INPUT	SETUP, RISE TIME Note.6	1000ms, 50ms / 230VAC	1000ms, 50ms / 115VAC	at full load												
	HOLD UP TIME (Typ.)	20ms / 230VAC	20ms / 115VAC	at full load												
PROTECTION	VOLTAGE RANGE Note.7	90 ~ 264VAC	127 ~ 370VDC													
	FREQUENCY RANGE	47 ~ 63Hz														
	POWER FACTOR (Typ.)	PF>0.91 / 230VAC		PF>0.95 / 115VAC at full load												
	EFFICIENCY (Typ.)	89%	89.5%	90%	90%	91%										
	AC CURRENT (Typ.)	1.3A / 115VAC	0.6A / 230VAC													
	INRUSH CURRENT (max.)	70A / 230VAC														
ENVIRONMENT	LEAKAGE CURRENT(max.)	1mA / 240VAC														
	OVERLOAD	110 ~ 150% 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														
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")														
SAFETY & EMC (Note. 8)	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-FG:2kVAC O/P-FG:0.5kVAC														
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: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	348.7K hrs min. MIL-HDBK-217F(25°C)														
	DIMENSION	145*60*32mm (L*W*H)														
	PACKING	0.45Kg; 30pcs/14.05Kg/1CUFT														
NOTE	PLUG	See page 3 ; Other type available by customer requested														
	CABLE	See page 3 ; Other type available by customer requested														

■ Derating Curve

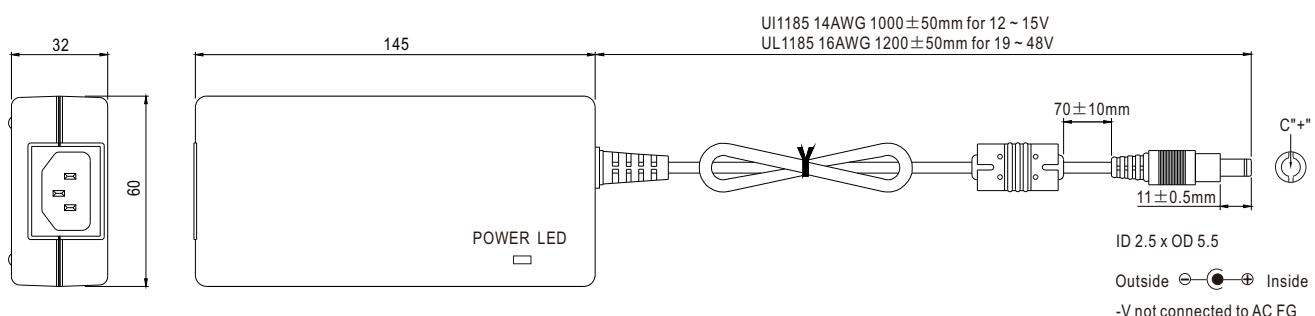


■ Static Characteristics



■ Mechanical Specification

Case No. GS90A Unit:mm



■ Plug Assignment

Standard plug: P1M

P1M	
P/N	OUTPUT
CENTER	+

■ Installation Manual

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