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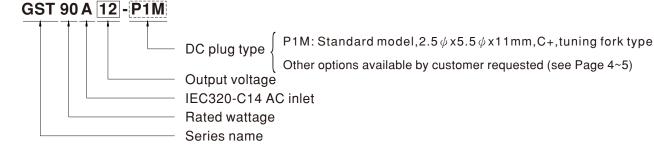
- · Global certificates
- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14, Class I power unit
- Built-in active PFC function
- No load power consumption < 0.15W
- · Energy efficiency Level VI
- Comply with EISA 2007/DoE,NRCan,Korea K-MEPS, AU/NZ MEPS, EU ErP and CoC Version 5
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- -30~+70°C wide range working temperature
- LED indicator for power on
- Various DC plug quick adapter accessory available (Plug kit sold sperately, please refer to : https://www.meanwell.com/upload/pdf/DC_plug.pdf)
- 3 years warranty

Description

GST90A is a highly reliable, 90W desktop style single-output green adaptor series. This product is a class ${
m I}$ 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, Korea K-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



Applications

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

GTIN CODE

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



ORDER NO.		GST90A12-P1M	GST90A15-P1M	GST90A19-P1M	GST90A24-P1M	GST90A48-P1M				
	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				
OUTPUT	CURRENT RANGE	0 ~ 6.67A	0 ~ 6A) ~ 3.75A	0 ~ 1.87A				
	RATED POWER (max.)	80W	90W		90W	90W				
	RIPPLE & NOISE (max.) Note.3		150mVp-p		200mVp-p	200mVp-p				
	VOLTAGE TOLERANCE Note.4	' '	±5.0%		±3.0%	±2.5%				
			±1.0%							
		±1.0%			±1.0%	±1.0%				
	LOAD REGULATION	±5.0%	±5.0%		±3.0%	±2.5%				
	,	1000ms, 50ms / 230VAC 1000ms, 50ms / 115VAC at full load								
	HOLD UP TIME (Typ.)	20ms / 230VAC 20ms / 115VAC at full load								
		90 ~ 264VAC 127 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.91 / 230VAC	PF>0.95 / 115VAC at ful							
IPUT	EFFICIENCY (Typ.)	89%	89.5%	90%	90% 91%					
	AC CURRENT (Typ.)	1.3A / 115VAC 0.6A / 230VAC								
	INRUSH CURRENT (max.)	Cold start 35 / 115AC 70A / 230VAC								
	LEAKAGE CURRENT(max.)	1mA/240VAC								
	OVERLOAD	110 ~ 150% rated output power								
PROTECTION	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed								
		105 ~ 135% rated output voltage								
	OVER 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 "De	· · · · · · · · · · · · · · · · · · ·							
	WORKING HUMIDITY	20% ~ 90% RH non-condensing								
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing								
NVIKONINENI	TEMP. COEFFICIENT									
	VIBRATION	±0.03% / °C (0~40°C)								
		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	SAFETY STANDARDS Note. 8	UL62368-1, CSA C22.2 No.62368-1, TUV BS EN/EN62368-1, BSMI CNS15598-1, CCC GB4943.1, PSE J62368-1, AS/NZS 6I BIS IS13252, KC K60950-1, EAC TP TC 004 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						
		Parameter	Standard		Test Level / No	te				
SAFETY &	EMC EMISSION	Conducted emission		(CISPR32),FCC PART 15 / CISP NMB-3(B),CNS15936,GB17625. MSIP KN32						
		Radiated emission		(CISPR32),FCC PART 15 / CISP NMB-3(B),CNS15936,GB17625. MSIP KN32						
		Harmonic current	BS EN/EN61000)-3-2,GB9254	Class A					
Note. 10)		Voltage flicker	BS EN/EN61000)-3-3						
,		BS EN/EN55035								
		Parameter	Standard	andard Test Level /Note						
		ESD	BS EN/EN61000)-4-2	Level 4, 15KV	Level 4, 15KV air; Level 4, 8KV contact				
		RF field susceptibility	BS EN/EN61000)-4-3	Level 2, 3V/n	Level 2, 3V/m				
		EFT bursts	BS EN/EN61000)-4-4	Level 2, 1KV					
		Surge susceptibility	BS EN/EN61000)-4-5	Level 3, 1KV	Level 3, 1KV/Line-Line , 2KV/Line-F				
		Conducted susceptibility	BS EN/EN61000			Level 2, 3V				
		Magnetic field immunity	BS EN/EN61000			Level 2, 3A/m				
		magnetic field illillidility				>95% dip 0. 5 periods, 30% dip 25 perio				
		Voltage dips , interruption	BS EN/EN6100)-4-11	>95% dip 0. 5 periods, 30% dip 25 periods >95% interruptions 250 periods					
	MTBF	2529.4K hrs min. Telcordia SR-332 (Bellcore) ; 389.3K hrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION	145*60*32mm (L*W*H)								
	PACKING	0.45Kg; 30pcs/14.05Kg/0.9CUFT								
	PLUG	See page 4~5; Other type available by customer requested								
CONNECTOR										
	CABLE		See page 4~5 ; Other type available by customer requested 230VAC input, rated load, 25°C 70% RH ambient.							
	1 All harameters are enecition of	at 2500AC input, rated load, 25 \pm 70% KH altibletic. age set at point measure by plug terminal & 50% load. d at 20MHz by using a 12" twisted pair terminated with a 0.1 μ F & 47 μ F capacitor. plerance, line regulation, load regulation.								

NOTE

- 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 voltages. Pleas check the derating curve for more details.
 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- 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 https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
- Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



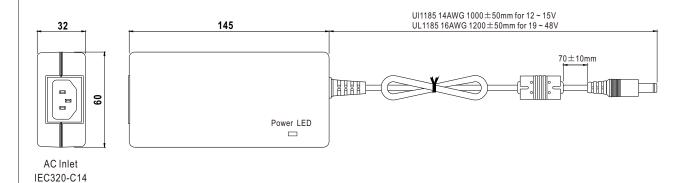
| Static Characteristics | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100

INPUT VOLTAGE (VAC) 60Hz

■ Mechanical Specification

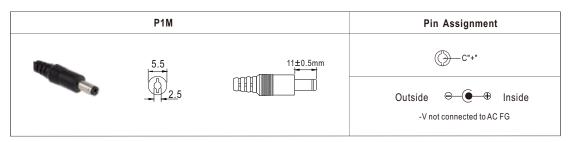
(Unit: mm , tolerance ± 1mm)

Case No. GS90A



■ DC output plug

O Standard plug: P1M





O DC plug changeable through:

- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
- (2) Quick adapter accessory (sold separately without MOQ)

Please refer to below table and online selection guide : https://www.meanwell.com/upload/pdf/DC_plug.pdf

Example quick adapter accessory:



Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fo	rk Style	Type No.	Α		В	С	Quick Adapter
- Talling Fo		OD		ID	L	Accessory	
	(Straight)	P1I	5.5		2.1	9.5	
		P1L	5.5	:	2.5	9.5	
A-		P1J	5.5	- :	2.1	11.0	Available
	(Right-angled)	P1JR	5.5		2.1	11.0	(Current rating: 7.5A max.)
- 1- <u>- 1</u>		P1IR	5.5	2	2.1	9.5	
		P1LR	5.5	2	2.5	9.5	
		P1MR	5.5	:	2.5	11.0	
Barrel	Type No.	Α		В	С		
Darrer		OD		ID	L		
	C	P2I	5.5		2.1	9.5	None
		P2J	5.5		2.1	11.0	
Δ.		P2L	5.5	:	2.5	9.5	
A B	(Straight)	P2M	5.5		2.5	11.0	
□ B	(Right-angled)	P2IR	5.5		2.1	9.5	
		P2JR	5.5		2.1	11.0	
		P2LR	5.5		2.5	9.5	
		P2MR	5.5		2.5	11.0	
	Type No.	Α		В	С		
Lock S		OD		ID	L		
A	Floating Locking C-	P2S(S761K)	5.53	- :	2.03	12.06	None
		P2K(761K)	5.53		2.54	12.06	None
<u>B</u>	SWITCHCRAFT original or equivalent	P2C(S760K)	5.53	2	2.03	9.52	
		P2D(760K)	5.53	:	2.54	9.52	
Min. Pin	Type No.	Α		В	С		
IVIIII. FIII		OD		ID	L		
<u>, A</u> ,	EIAJ equivalent	P3A	2.35	(0.7	11.0	None
В В		P3B	4.0		1.7	11.0	
<u> → </u>		P3C	4.75		1.7	11.0	
045	ilia Oficilia	Tuno No	Α	В	С	D	
Center P	ili Style	Type No.	OD	ID	L	Center Pin	
A	C C	P4A	5.5	3.4	11.0	1.0	None
B B		P4B	6.5	4.4	11.0	1.4	
	EIAJ equivalent	P4C	7.4	5.1	11.0	0.6	



Min. DIN 2 Din with Look (male)	Type No.	Pin	Assignment	Quick Adapter	
Min. DIN 3 Pin with Lock (male)		PIN No.	Output	Accessory	
	R6B	1	+Vo		
		2	-Vo	None	
KYCON KPPX-3P equivalent		3	+Vo		
,,	Type No.	Pin Assignment			
Min. DIN 4 Pin with Lock (male)		PIN No.	Output		
	R7B	1	+Vo	Available (Current rating: 7.5A max.)	
		2	-Vo		
KYCON KPPX-4P equivalent		3	-Vo		
K 100N KFFX-4F equivalent		4	+Vo		
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment			
Will. DIN 41 III With Lock (Telliale)	турстчо.	PIN No.	Output		
	R7BF	1	+Vo	N	
2 3 LA LANDING		2	-Vo	None	
		3	-Vo		
KYCON KPJX-CM-4S equivalent		4	+Vo		
DIN 5 Pin (male)	Type No.	Pin Assignment			
(a.s)		PIN No.	Output	None	
		1	-Vo		
		2	-Vo		
		3	+Vo		
		4	-Vo		
		5	+Vo		
Stripped and tinned leads	Type No.	Pin Assignment			
		PIN No.	Output	1	
L (red) 1 2 L1 (black)	by customer	1	+Vo	None	
Length of Land L1 by request (MW's standard length, L: 25 mm, L1: 5 mm) (NOTE: The wire color is for reference only, please refer to the actual product)		2	-Vo		

■ Installation Manual

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