













































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 < 0.15W
- · 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
- 3 years warranty

Applications

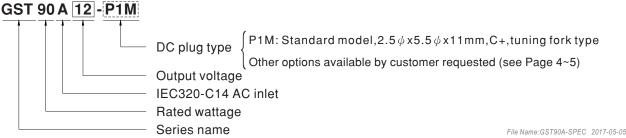
- · Consumer electronic devices
- Telecommunication devices
- · Office facilities
- · Industrial equipments

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,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



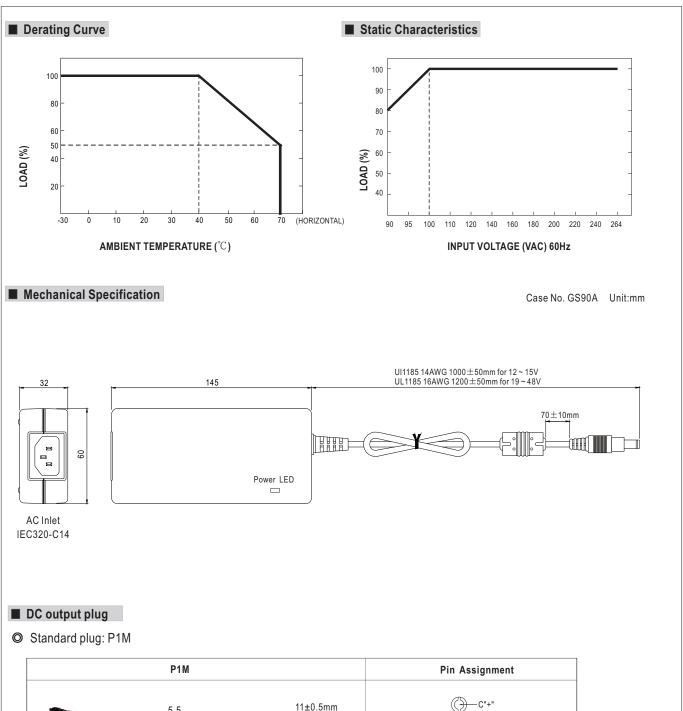
90W AC-DC High Reliability Industrial Adaptor

GST90A series

SPECIFICATION

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		
	CURRENT RANGE	0 ~ 6.67A	0 ~ 6A	0 ~ 4.74A	0 ~ 3.75A	0 ~ 1.87A		
	RATED POWER (max.)	80W	90W	90W	90W	90W		
OUTPUT	RIPPLE & NOISE (max.) Note.3	120mVn-n	150mVp-p	180mVp-p	200mVp-p	200mVp-p		
	VOLTAGE TOLERANCE Note.4		±5.0%	±4.0%	±3.0%	±2.5%		
		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LOAD REGULATION Note.5	±5.0%	±5.0%	±4.0%		±2.5%		
					±3.0%	⊥2.5%		
	,	1000ms, 50ms / 230VAC		15VAC 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 full load					
NPUT	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						
	OVEDLOAD	110 ~ 150% rated output	power					
	OVERLOAD	Protection type : Hiccup	mode, recovers auton	natically after fault condition	s removed			
PROTECTION		105 ~ 135% rated output voltage						
	OVER VOLTAGE	Protection type : Shut do		wer on to recover				
	OVER TEMPERATURE	Shut down o/p voltage, re						
	WORKING TEMP.	-30 ~ +70°C (Refer to "De	•					
	WORKING HUMIDITY							
ENVIDONMENT		20% ~ 90% RH non-condensing						
NVIRONMENT	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 STANDARDS Note. 8	UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943, 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-FG		. , , ,	,p10104			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:1						
	ISOLATION RESISTANCE	Parameter	Standard	723 C/ 70 /0 INT	Test Level / Note			
	EMC EMISSION	Conducted emission	EN55032(CISPF	R32),FCC PART 15 / CISPR22 NMB-3(B),CNS13438,GB1762 .MSIP KN32	.1 Class B			
		Radiated emission	EN55032(CISPF CAN ICES-3(B)/	EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1 EAC TP TC 020,MSIP KN32		1 Class B		
SAFETY & EMC		Harmonic current	EN61000-3-2,G		Class A			
Note. 9)		Voltage flicker	EN61000-3-3					
11010.01		Parameter	Standard		Test Level /Note			
		ESD	EN61000-4-2		Level 4, 15KV air; Level 4, 8KV contact			
		RF field susceptibility	EN61000-4-2		Level 2, 3V/m	, 5 • • • • • • • • • • • • • • • • •		
	EMC IMMUNITY	EFT bursts	EN61000-4-4		Level 2, 1KV	- 1 010 /// ===		
		Surge susceptibility	EN61000-4-5		· ·	e-Line , 2KV/Line-FG		
		Conducted susceptibility	EN61000-4-6		Level 2, 3V			
		Magnetic field immunity	EN61000-4-8		Level 2, 3A/m			
		Voltage dips , interruption	>95% interruptions 250 periods					
	MTBF	348.7K hrs min. MIL-HDBK-217F(25°C)						
OTHERS	DIMENSION	145*60*32mm (L*W*H)						
	PACKING	0.45Kg; 30pcs/14.05Kg/1CUFT						
CONNECTOR	PLUG	See page 4~5; Other type available by customer requested						
OHITCION	CABLE	See page 4~5 ; Other type	e available by custome	er requested				
IOTE	DC voltage: The output vol Ripple & noise are measur Tolerance: includes set up Line regulation is measured Length of set up time is me Derating may be needed u The demand for Malaysia s The power supply is considered.	are specified at 230VAC input, rated load, 25°C 70% RH ambient. ne output voltage set at point measure by plug terminal & 50% load. are measured at 20MHz by using a 12" twisted pair terminated with a 0.1μf & 47μf capacitor. udes set up tolerance, line regulation, load regulation. is measured from low line to high line at rated load. up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. be needed under low input voltages. Pleas check the derating curve for more details. or Malaysia safety is processed with the order no. GST90A □ -SIRIM by request. Please contact MEAN WELL for details. poly is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the st. For guidance on how to perform these EMC tests, please refer to 'EMI testing of component power supplies."						





P1M		Pin Assignment
5.5	11±0.5mm	Outside ⊕ ⊕ Inside -V not connected to AC FG



Optional DC plug:

Tuning Fork Style		Type No.	А		В	С
Tunning For	турстто.	OD		ID	L	
		P1I	5.5		2.1	9.5
		P1J	5.5		2.1	11.0
. A .	(Straight) (Right-angled)	P1L	5.5		2.5	9.5
A B		P1IR	5.5		2.1	9.5
В		P1JR	5.5		2.1	11.0
		P1LR	5.5		2.5	9.5
		P1MR	5.5		2.5	11.0
Barrel	Style	Type No.	Α		В	С
Burror			OD		ID	L
	L C_	P2I	5.5		2.1	9.5
		P2J	5.5		2.1	11.0
Δ		P2L	5.5		2.5	9.5
A 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
Look	Lock Style				В	С
LOCK	otyle	Type No.	OD		ID	L
_ A	Locking C	P2S(S761K)	5.53		2.03	12.06
		P2K(761K)	5.53		2.54	12.06
A B B		P2C(S760K)	5.53		2.03	9.52
SV	VITCHCRAFT original or equivalent	P2D(760K)	5.53		2.54	9.52
Center Pi	Type No.	Α	В	С	D	
Center i in Style		OD	ID	L	Center Pin	
A	C	P4A	5.5	3.4	11.0	1.0
		P4B	6.5	4.4	11.0	1.4
- <u> </u> - <u>D</u>	EIAJ equivalent	P4C	7.4	5.1	11.0	0.6
Min DIN 3 Din with	Type No	Pin Assignment				
Min. DIN 3 Pin with	Type No.	PIN No	PIN No. Output		ut	
		R6B	1		+Vo	
$\begin{pmatrix} \circ \\ \circ \end{pmatrix}$ $\begin{pmatrix} 1 \\ 2 \end{pmatrix}$			2		-Vo	
3	KYCON KPPX-3P equivalent		3		+Vo	



Min DINI 4 Din with Look (male)	Typo No	Pin Assignment		
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No.	Output	
		1	+Vo	
	R7B	2	-Vo	
1 4		3	-Vo	
KYCON KPPX-4P equivalent		4	+Vo	
Min DIN 4 Din with Look (formula)	Type No.	Pin Assignment		
Min. DIN 4 Pin with Lock (female)		PIN No.	Output	
		1	+Vo	
23 ruuuuun	R7BF	2	-Vo	
2 3 [ununulu]	N/DF	3	-Vo	
KYCON KPJX-CM-4S equivalent		4	+Vo	
DIN 5 Din (mala)	Torres Nie	Type No. PIN No.		
DIN 5 Pin (male)	Type No.	PIN No.	Output	
	R1B	1	-Vo	
		2	-Vo	
$\begin{pmatrix} \begin{pmatrix} 0 \\ 4 \\ 2 \\ 5 \end{pmatrix} \end{pmatrix} \qquad \begin{vmatrix} 1 \\ 1 \\ 1 \end{vmatrix} \qquad \begin{vmatrix} 1 \\ 1 \end{vmatrix} \qquad $		3	+Vo	
		4	-Vo	
		5	+Vo	
Stripped and tinned leads	Type No	Pin	Assignment	
Stripped and tillled leads	Type No.	PIN No.	Output	
L (red) 1 2	by customer	1	+Vo	
L1 (black) Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm)	by customer	2	-Vo	

■ Installation Manual

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