















































File Name: GST60A-SPEC 2021-09-15



Features

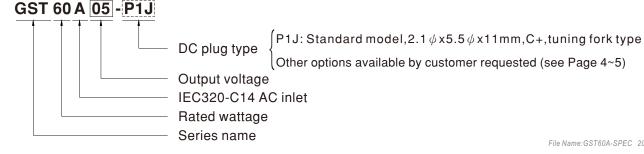
- Global certificates
- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14, Class I power unit
- No load power consumption < 0.075W
- · Energy efficiency Level VI
- Comply with EISA 2007/DoE,NRCan,Korea K-MEPS, AU/NZ MEPS, EU ErP and CoC Version 5
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Fully enclosed plastic case
- Pass LPS
- -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

GST60A is a highly reliable, 60W 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 5VDC and 48VDC that can satisfy the demands for various types of consumer electronic devices.

With the efficiency up to 92% and the extremely low no-load power consumption below 0.075W, GST60A 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.GST60A is certified for the international safety regulations.

Model Encoding



Applications

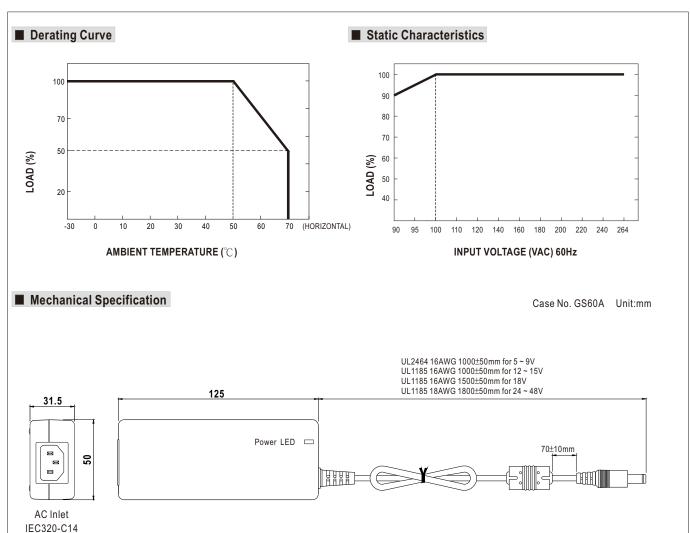
- · Consumer electronic devices
- Telecommunication devices
- · Office facilities
- Industrial equipments

60W AC-DC Reliable Green Industrial Adaptor

ORDER NO.	<u> </u>	GST60A05-P1J	GST60A07-P1J	GST60A09-P1J	GST60A12-P1J	GST60A15-P1J	GST60A18-P1J	GST60A24-P1J	GST60A48-P		
	SAFETY MODEL NO.	GST60A05	GST60A07	GST60A09	GST60A12	GST60A15	GST60A18	GST60A24	GST60A48		
	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V		
	RATED CURRENT	6A	6A	6A	5A	4A	3.33A	2.5A	1.25A		
	CURRENT RANGE	0 ~ 6A	0 ~ 6A	0 ~ 6A	0 ~ 5A	0 ~ 4A	0 ~ 3.33A	0 ~ 2.5A	0 ~ 1.25A		
	RATED POWER (max.)	30W	45W	54W	60W	60W	60W	60W	60W		
OUTPUT	RIPPLE & NOISE (max.) Note.3	120mVp-p	120mVp-p	120mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p		
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±3.0%	±2.5%		
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LOAD REGULATION	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±3.0%	±2.5%		
	SETUP, RISE TIME Note.6	1000ms, 50ms /	230VAC 1	000ms, 50ms / 1	15VAC at full loa	d					
	HOLD UP TIME (Typ.)	50ms / 230VAC 15ms / 115VAC at full load									
	VOLTAGE RANGE Note.7	90 ~ 264VAC 135 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
NPUT	EFFICIENCY (Typ.)	85.5%	88.5%	89%	89.5%	89.5%	89.5%	90.5%	92%		
NPUI	AC CURRENT (Typ.)	1.4A / 115VAC	/ 115VAC 1A / 230VAC								
	INRUSH CURRENT (max.)	Cold start 35A / 115AC 65A / 230VAC									
	LEAKAGE CURRENT(max.)	0.75mA / 240VAC									
	01/501 040	105 ~ 150% rated output power									
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION		5.2 ~ 6.8V	7.8 ~ 10.2V	9.4 ~ 12.2V	12.6 ~ 16.2V	15.7 ~ 20.3V	18.9 ~ 24.3V	25.2 ~ 32.4V	50.4 ~ 64.8		
	OVER VOLTAGE	Protection type	: Shut down o/p	voltage, re-pov	er on to recover	•		ı			
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover									
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20% ~ 90% RH non-condensing									
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing									
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C)									
	VIBRATION			period for 60min.	each along X. Y.	Zaxes					
		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes UL62368-1, CSA C22.2 No.62368-1, TUV BS EN/EN62368-1, BSMI CNS 14336-1, CCC GB4943.1, PSE J62368-1,									
		AS/NZS 60950.1, BIS IS13252, KC K60950-1, EAC TP TC 004 approved; SIRIM MS IEC62368-1 (optional) approved									
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC									
	ISOLATION RESISTANCE										
		//P-O/P, //P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Parameter									
	EMC EMISSION	Conducted emission			MB-3(B),CNS13	PART 15 / CISPR: 438,GB17625.1					
		Radiated emission		BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1 EAC TP TC 020,MSIP KN32			Class B				
SAFETY &		Harmonic current BS EN/EN61000-3-2,GB9254			-3-2,GB9254	Class A					
EMC (Note. 9)		Voltage flicker		BS EN/EN61000-3-3							
,		Parameter Standard				Test Level /	Test Level /Note				
	EMC IMMUNITY										
						Level 4, 15KV air; Level 4, 8KV contact					
		RF field susceptibility BS EN/EN61000-4-3				Level 2, 3V/m					
		EFT bursts	T bursts BS EN/EN61000-4-4			Level 2, 1KV					
		Surge susceptib	oility	BS EN/EN61000)-4-5		Level 3, 1k	Level 3, 1KV/Line-Line , 2KV/Line-FG			
		Conducted susc	eptibility	BS EN/EN61000-4-6			Level 2, 3V				
		Magnetic field in	nmunity	BS EN/EN61000-4-8			Level 2, 3A	Level 2, 3A/m			
		Voltage dips , in	·	BS EN/EN61000-4-11			>95% dip 0. 5 periods, 30% dip 25 period >95% interruptions 250 periods				
OTHERS	MTBF	709.7K hrs min. MIL-HDBK-217F(25°C)									
	DIMENSION	125*50*31.5mm (L*W*H)									
	PACKING	0.305Kg; 40pcs/13.02Kg/1.04CUFT									
CONNECTOR	PLUG	See page 4~5; Other type available by customer requested									
	CABLE	See page 4~5; Other type available by customer requested									
		d at 230VAC input, rated load, 25°C 70% RH ambient.									
	All parameters are specified DC voltage: The output vol Ripple & noise are measur Tolerance: includes set up Line regulation is measurer	tage set at point ed at 20MHz by tolerance, line re d from low line to	measure by plu using a 12" twi egulation, load ro b high line at rat	ug terminal & 50 sted pair termina egulation.	% load. ated with a 0.1 μ f	·					

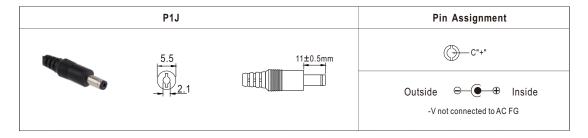
- 7. Derating may be needed under low input voltages. Pleas check the derating curve for more details.
- 8. The demand for Malaysia safety is processed with the order no. GST60A 🗆 -SIRIM by request. Please contact MEAN WELL for details.
- 9. The power supply is considered as an independent unit, but 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 http://www.meanwell.com)
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





■ DC output plug

O Standard plug: P1J





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)

			٨		В	0	O STATE OF	
Tuning Fo	Type No.	A		ID B	C	Quick Adapter Accessory		
		P1I	OD 5.5		2.1	9.5	Accessory	
	(Straight)	P1L	5.5		2.5	9.5		
Δ.		P1M			2.5	11.0	Available (Current rating: 7.5A max.)	
		P1IR	5.5 5.5		2.1	9.5		
₩ B		P1JR	5.5	_	2.1	11.0		
		P1LR	5.5		2.5	9.5		
	(Right-angled)	P1MR	5.5		2.5	11.0		
	0.1		A		В	С		
Barrel	Type No.	OD		ID	L			
	. C .	P2I	5.5		2.1	9.5		
		P2J	5.5		2.1	11.0		
		P2L	5.5		2.5	9.5	None	
A	(Straight)	P2M	5.5		2.5	11.0	None	
□ B	c	P2IR	5.5		2.1	9.5		
		P2JR	5.5		2.1	11.0		
		P2LR	5.5		2.5	9.5		
	(Right-angled)	P2MR	5.5		2.5	11.0		
L a als C	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		
B		P2C(S760K)	5.53		2.03	9.52		
	SWITCHCRAFT original or equivalent	P2D(760K)	5.53	-	2.54	9.52		
Min. Pin	Type No.	A		В	С			
		OD		ID	L	Available		
,A,	- C	P3A	2.35		0.7	11.0	(Current rating: 5A max.)	
В		P3B	4.0		1.7	11.0		
	EIAJ equivalent	P3C	4.75		1.7	11.0		
Cantan	Type No.	Α	В	С	D			
Center P		OD	ID	ID L	Center Pin			
A A	C	P4A	5.5	3.4	11.0	1.0	Available	
B B		P4B	6.5	4.4	11.0	1.4	(Current rating: 7.5A max.)	
	EIAJ equivalent	P4C	7.4	5.1	11.0	0.6		



Min DIN 2 Din with Look (male)	Tuno No	Pin	Assignment	Quick Adapter	
Min. DIN 3 Pin with Lock (male)	Type No.	PIN No.	Output	Accessory	
	R6B	1	+Vo		
		2	-Vo	Available (Current rating: 7.5A max.)	
KYCON KPPX-3P equivalent		3	+Vo		
Mire DINI 4 Directifich Looks (reads)	Type No.	Pin Assignment			
Min. DIN 4 Pin with Lock (male)	туре но.	PIN No.	Output		
	R7B	1	+Vo	Available	
		2	-Vo	(Current rating: 7.5A max.)	
KYCON KPPX-4P equivalent		3	-Vo		
KTOON KFFX-4F equivalent		4	+Vo		
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment			
Willi. Dilv 41 ill with Lock (leniale)	1) 00 110.	PIN No.	Output		
	R7BF	1	+Vo	None	
2 3 UTUTUU 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2	-Vo	-	
		3	-Vo		
KYCON KPJX-CM-4S equivalent		4	+Vo		
DIN 5 Pin (male)	Type No.	Pin Assignment			
Birt of in (maio)		PIN No.	Output	Available	
	R1B	1	-Vo		
		2	-Vo	(Current rating: 7.5A max.)	
		3	+Vo	-	
		4	-Vo	-	
		5	+Vo		
Stripped and tinned leads	Type No.	Pin Assignment			
от гррои от от того того того того того того т	1,70110.	PIN No.	Output		
L (red) 1 2	by customer	1	+Vo	None	
L1 (black) Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm)		2	-Vo		

■ Installation Manual

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