
 Energy Verified
 Rendement
 Énergétique Vérifié


■ 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
- 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

• 3 years warranty

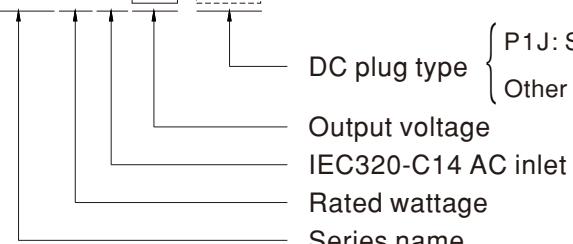
■ Description

GST40A is a highly reliable, 40W 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 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, GST40A 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. GST40A is certified for the international safety regulations.

■ Model Encoding

GST 40 A 05 -P1J



DC plug type { P1J: Standard model, 2.1 φ x 5.5 φ x 11mm, C+, tuning fork type
 Other options available by customer requested (see Page 4~5)

Output voltage

IEC320-C14 AC inlet

Rated wattage

Series name



SPECIFICATION

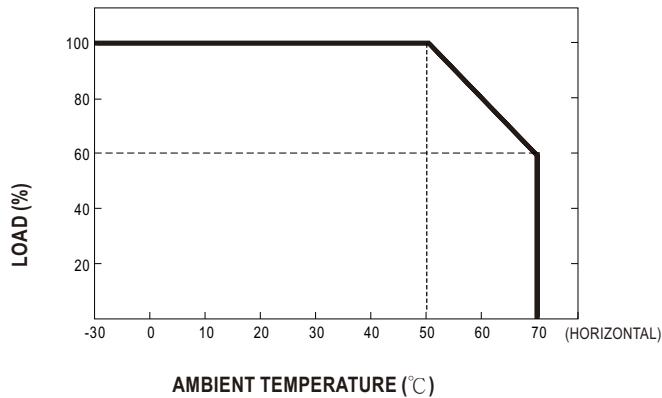
ORDER NO.	GST40A05-P1J	GST40A07-P1J	GST40A09-P1J	GST40A12-P1J	GST40A15-P1J	GST40A18-P1J	GST40A24-P1J	GST40A48-P1J															
OUTPUT	SAFETY MODEL NO.	GST40A05	GST40A07	GST40A09	GST40A12	GST40A15	GST40A18	GST40A24	GST40A48														
	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V														
	RATED CURRENT	5A	5.34A	4.45A	3.34A	2.67A	2.22A	1.67A	0.84A														
	CURRENT RANGE	0 ~ 5A	0 ~ 5.34A	0 ~ 4.45A	0 ~ 3.34A	0 ~ 2.67A	0 ~ 2.22A	0 ~ 1.67A	0 ~ 0.84A														
	RATED POWER (max.)	25W	40W	40W	40W	40W	40W	40W	40W														
	RIPPLE & NOISE (max.) Note.3	120mVp-p	120mVp-p	120mVp-p	120mVp-p	120mVp-p	120mVp-p	150mVp-p	200mVp-p														
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.5%	±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%	±2.5%	±2.5%														
INPUT	SETUP, RISE TIME Note.6	1000ms, 50ms / 230VAC		1000ms, 50ms / 115VAC at full load																			
	HOLD UP TIME (Typ.)	50ms / 230VAC		15ms / 115VAC at full load																			
PROTECTION	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC																					
	FREQUENCY RANGE	47 ~ 63Hz																					
	EFFICIENCY (Typ.)	84.5%	87.5%	88.5%	89.5%	90%	90%	91%	92%														
	AC CURRENT (Typ.)	1A / 115VAC	0.5A / 230VAC																				
	INRUSH CURRENT (max.)	Cold start	35A / 115AC	65A / 230VAC																			
ENVIRONMENT	LEAKAGE CURRENT(max.)	0.75mA / 240VAC																					
	OVERLOAD	105 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed																					
	OVER VOLTAGE	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 ~ 64.8V														
		Protection type : 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 non-condensing																					
	TEMP. COEFFICIENT	±0.03% / °C (0~50°C)																					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes																					
	SAFETY STANDARDS Note. 7	UL62368-1, CSA C22.2 No.62368-1, TUV BS EN//EN62368-1, BSMI CNS 14336-1 , CCC GB4943.1, PSE J62368-1, A S/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	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH																					
	EMC EMISSION	Parameter	Standard		Test Level / Note																		
EMC IMMUNITY	Conducted 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																			
	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																			
	Harmonic current	BS EN/EN61000-3-2,GB9254		Class A																			
	Voltage flicker	BS EN/EN61000-3-3		-----																			
	Parameter	Standard		Test Level / Note																			
	ESD	BS EN/EN1600-4-2		Level 4, 15KV air; Level 4, 8KV contact																			
	RF field susceptibility	BS EN/EN1600-4-3		Level 2, 3V/m																			
	EFT bursts	BS EN/EN1600-4-4		Level 2, 1KV																			
OTHERS	Surge susceptibility	BS EN/EN1600-4-5		Level 3, 1KV/Line-Line , 2KV/Line-FG																			
	Conducted susceptibility	BS EN/EN1600-4-6		Level 2, 3V																			
CONNECTOR	Magnetic field immunity	BS EN/EN1600-4-8		Level 2, 3A/m																			
	Voltage dips , interruption	BS EN/EN16000-4-11		>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods																			
DIMENSION	MTBF	736.4K hrs min. MIL-HDBK-217F(25°C)																					
	DIMENSION	125*50*31.5mm (L*W*H)																					
	PACKING	0.28Kg; 40pcs/12.02Kg/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																					
NOTE	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 0.1μf & 47μf 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. The demand for Malaysia safety is processed with the order no. GST40A □ -SIRIM by request. Please contact MEAN WELL for 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 http://www.meanwell.com)																						
	※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx																						



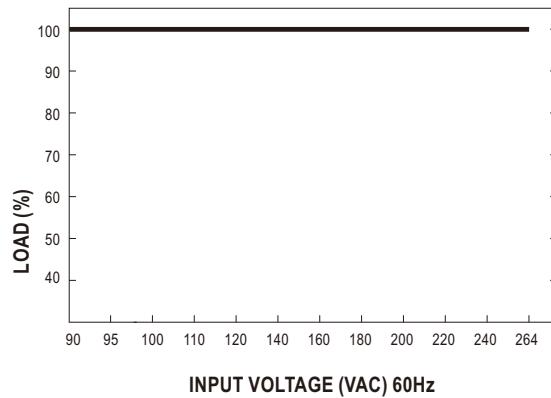
40WAC-DC Reliable Green Industrial Adaptor

GST40A series

■ Derating Curve

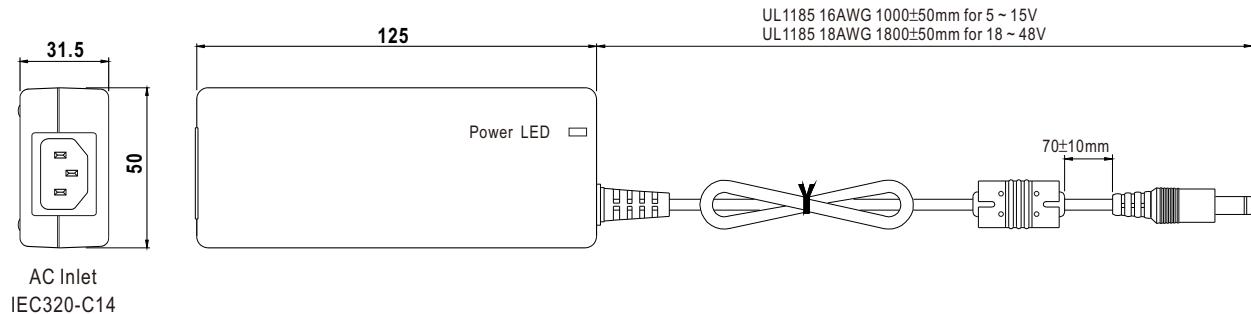


■ Static Characteristics



■ Mechanical Specification

Case No. GS60A Unit:mm



■ DC output plug

◎ Standard plug: P1J

P1J	Pin Assignment

◎ DC plug changeable through:

(1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)

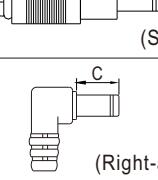
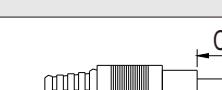
(2) Quick adapter accessory (sold separately without MOQ)

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

Example quick adapter accessory:



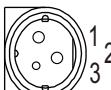
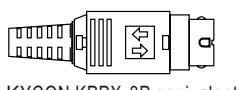
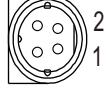
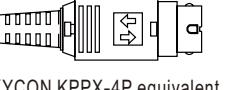
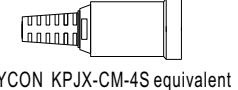
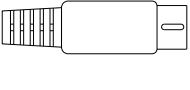
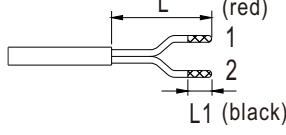
◎ Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork Style	Type No.	A	B	C	Quick Adapter Accessory	
		OD	ID	L		
	P1I	5.5	2.1	9.5	Available (Current rating: 7.5A max.)	
	P1L	5.5	2.5	9.5		
	P1M	5.5	2.5	11.0		
	P1IR	5.5	2.1	9.5		
	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.	A	B	C	
		P2I	5.5	2.1	9.5	None
		P2J	5.5	2.1	11.0	
		P2L	5.5	2.5	9.5	
		P2M	5.5	2.5	11.0	
		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	
Lock Style		Type No.	A	B	C	None
		P2S(S761K)	5.53	2.03	12.06	
		P2K(761K)	5.53	2.54	12.06	
		P2C(S760K)	5.53	2.03	9.52	
		P2D(760K)	5.53	2.54	9.52	
Min. Pin Style		Type No.	A	B	C	Available (Current rating: 5A max.)
		P3A	2.35	0.7	11.0	
		P3B	4.0	1.7	11.0	
		P3C	4.75	1.7	11.0	
Center Pin Style		Type No.	A	B	C	Available (Current rating: 7.5A max.)
		P4A	5.5	3.4	11.0	
		P4B	6.5	4.4	11.0	
		P4C	7.4	5.1	11.0	



40WAC-DC Reliable Green Industrial Adaptor

GST40A series

Min. DIN 3 Pin with Lock (male)	Type No.	Pin Assignment		Quick Adapter Accessory
		PIN No.	Output	
	R6B	1	+Vo	Available (Current rating: 7.5A max.)
 1 2 3		2	-Vo	
		3	+Vo	
Min. DIN 4 Pin with Lock (male)	Type No.	Pin Assignment		Available (Current rating: 7.5A max.)
		PIN No.	Output	
	R7B	1	+Vo	
 2 3 1 4		2	-Vo	
		3	-Vo	
		4	+Vo	
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment		None
		PIN No.	Output	
	R7BF	1	+Vo	
 2 3 14		2	-Vo	
		3	-Vo	
		4	+Vo	
DIN 5 Pin (male)	Type No.	Pin Assignment		Available (Current rating: 7.5A max.)
		PIN No.	Output	
	R1B	1	-Vo	
 1 4 2 5 3		2	-Vo	
		3	+Vo	
		4	-Vo	
		5	+Vo	
Stripped and tinned leads	Type No.	Pin Assignment		None
		PIN No.	Output	
	by customer	1	+Vo	
 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>