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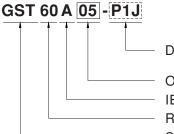
- · Global certificates
- Universal AC input / Full range
- · 3 pole AC inlet IEC320-C14, Class I power unit
- No load power consumption < 0.075W
- · Energy efficiency Level VI
- Comply with EISA 2007/DoE,NRCan,Korea K-MEPS, AU/NZ MEPS, EU ErP and CoC Version 5
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Fully enclosed plastic case
- · Pass LPS
- -30~+70°C wide range working temperature
- · LED indicator for power on
- · 3 years warranty

Description

GST60A is a highly reliable, 60W 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, 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



P1J: Standard model, 2.1 ϕ x5.5 ϕ x11mm, C+, tuning fork type Other options available by customer requested (see Page 4~5)

Output voltage IEC320-C14 AC inlet Rated wattage

Series name

Applications

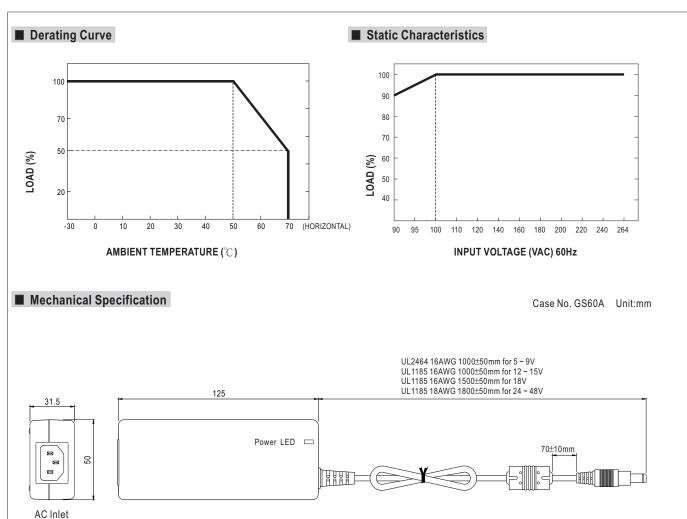
- · Consumer electronic devices
- Telecommunication devices
- · Office facilities
- Industrial equipments



SPECIFICATION

ORDER NO.		GST60A05-P1J	GST60A07-P1J	GST60A09-P1J	GST60A12-P1J	GST60A15-P1J	GST60A18-P1J	GST60A24-P1J	GST60A48-F	
	SAFETY MODEL NO.	GST60A05	GST60A07	GST60A09	GST60A12	GST60A15	GST60A18	GST60A24	GST60A48	
	DC VOLTAGE Note.2		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	
		30W	45W	54W	60W	60W	60W	60W	60W	
THEFT	RATED POWER (max.)			-						
OUTPUT	RIPPLE & NOISE (max.) Note.3		120mVp-p	120mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p	
	VOLTAGE TOLERANCE Note.4		±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%	
	LOAD REGULATION	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±3.0%	±2.5%	
			1000ms, 50ms / 230VAC 1000ms, 50ms / 115VAC at full load							
	HOLD UP TIME (Typ.)	50ms / 230VAC 15ms / 115VAC at full load								
			135 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz								
NPUT	EFFICIENCY (Typ.)	85.5%	88.5%	89%	89.5%	89.5%	89.5%	90.5%	92%	
	AC CURRENT (Typ.)	1.4A / 115VAC	1.4A / 115VAC 1A / 230VAC							
	INRUSH CURRENT (max.)	Cold start 35A / 115AC 65A / 230VAC								
	LEAKAGE CURRENT(max.)	0.75mA / 240VAC								
	OVERLOAD	105 ~ 150% rated output power								
		Protection type	: Hiccup mode,	recovers autom	atically after fau	It condition is re	moved			
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				ver on to recover					
	OVER TEMPERATURE	* .		er on to recover						
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	,	0	,						
ENVERONMENT.	STORAGE TEMP., HUMIDITY	20% ~ 90% RH non-condensing								
ENVIRONMENT	TEMP. COEFFICIENT		-40 ~ +85°C, 10 ~ 95% RH non-condensing							
	VIBRATION	,	±0.03% / °C (0~50°C)							
		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	SAFETT 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: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								
SAFETY &		Parameter								
	EMC EMISSION	Conducted emission 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					
		Radiated emission CAN IC		CAN ICES-3(B)/I	55032(CISPR32),FCC PART 15 / CISPR22 N ICES-3(B)/NMB-3(B),CNS13438,GB17625.1 C TP TC 020,MSIP KN32			1 Class B		
		Harmonic curre	Harmonic current EN61000-3-2,GB9254		Class A					
EMC (Note. 9)		Voltage flicker		EN61000-3-3						
(Parameter	-			Test Level /Note				
							111111111111111111111111111111111111111			
		ESD		EN61000-4-2			Level 4, 15KV air; Level 4, 8KV contact			
		RF field suscep	,			Level 2, 3V/m				
		EFT bursts		EN61000-4-4			Level 2, 1KV			
	EMC IMMUNITY	Surge susceptib	ility	EN61000-4-5 Level 3, 1KV/Line-Line , 2			Line-Line , 2KV	(V/Line-FG		
		Conducted susc	eptibility	, , , , , , , , , , , , , , , , , , , ,			Level 2, 3V			
		Magnetic field in	,							
OTHERS		Voltage dips , in		EN61000-4-11			>95% dip 0. 5 periods, 30% dip 25 periods >95% interruptions 250 periods			
	MTBF	709.7K hrs min	709.7K hrs min. MIL-HDBK-217F(25°C)				/ 95 /6 IIIIeiiup		J	
	DIMENSION	125*50*31.5mm (L*W*H)								
	PACKING	0.305Kg; 40pcs/13.02Kg/1.05CUFT								
	PLUG	See page 4~5; Other type available by customer requested								
ONNECTOR	CABLE			lable by custome	•					
NOTE	DC voltage: The output vol Ripple & noise are measure Tolerance: includes set up Line regulation is measure Length of set up time is me Derating may be needed.	All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient. DC voltage: The output voltage set at point measure by plug terminal & 50% load. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1 \(\tilde{\psi}\) & 47 \(\tilde{\psi}\) f capacitor. Tolerance: includes set up tolerance, line regulation, load regulation. Line regulation is measured from low line to high line at rated load. 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. Derating may be needed under low input voltages. Pleas check the derating curve for more details. The demand for Malaysia safety is processed with the order no. GST60A \(\subseteq \text{-SIRIM}\) by request. Please contact MEAN WELL for details. 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)								

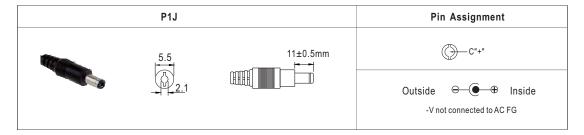




■ DC output plug

IEC320-C14

O Standard plug: P1J





Optional DC plug:

Tuning For	Type No.	А		В	С	
Tulling For	туре но.	OD		ID	L	
	C	P1I	5.5		2.1	9.5
		P1L	5.5		2.5	9.5
Δ	(Straight)	P1M	M 5.5		2.5	11.0
A B	(Right-angled)	P1IR	5.5		2.1	9.5
₩ B		P1JR	P1JR 5.5		2.1	11.0
		P1LR	5.5		2.5	9.5
	(Right-aligned)	P1MR	5.5		2.5	11.0
Barrel	Type No.	А		В	С	
26.116.	7.	OD		ID	L	
	C	P2I	5.5		2.1	9.5
		P2J	5.5		2.1	11.0
A		P2L	5.5		2.5	9.5
A D B	(Straight)	P2M	5.5		2.5	11.0
В	C	P2IR	5.5		2.1	9.5
		P2JR	5.5		2.1	11.0
	(Right-angled)	P2LR	5.5		2.5	9.5
	(rtight unglou)	P2MR			2.5	11.0
Lock S	Style	Type No.	A OD		В	С
LOOK	Lock Style				ID	L
<u> </u>	Locking C	P2S(S761K)	5.53		2.03	12.06
O _B		P2K(761K)	5.53		2.54	12.06
	MITCHORAST original or agriculant	P2C(S760K)	5.53		2.03	9.52
51	NITCHCRAFT original or equivalent	P2D(760K)	5.53		2.54	9.52
Center P	Type No.	Α	В	С	D	
33011		OD	ID	L	Center Pin	
A A	- <u>C</u>	P4A	5.5	3.4	11.0	1.0
		P4B	6.5	4.4	11.0	1.4
- T-B	EIAJ equivalent	P4C	7.4	5.1	11.0	0.6
Min DIN 2 Din!4	Type No.	Pin Assignment				
Min. DIN 3 Pin wit		PIN No. Output				
		R6B	1		+Vo	
0 12			2		-Vo	
32	KYCON KPPX-3P equivalent		3		+Vo	,



M: BIN (B: 'III (1)	Type No	Pin Assignment		
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No.	Output	
		1	+Vo	
	R7B	2	-Vo	
		3	-Vo	
KYCON KPPX-4P equivalent		4	+Vo	
Min DIN 4 Din with Look (famala)	Type No.	Pin Assignment		
Min. DIN 4 Pin with Lock (female)		PIN No.	Output	
	R7BF	1	+Vo	
2 3 [100000]		2	-Vo	
	IV/DI	3	-Vo	
KYCON KPJX-CM-4S equivalent		4	+Vo	
DIN 5 Pin (male)	T N	Pin Assignment		
Din 3 Fili (male)	Type No.	PIN No.	Output	
	R1B	1	-Vo	
		2	-Vo	
		3	+Vo	
		4	-Vo	
		5	+Vo	
Stripped and tinned leads	Type No.	Pin Assignment		
Stripped and tillined leads	туре по.	PIN No.	Output	
L (red) 1 xxx 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 dustomen	2	-Vo	

■ Installation Manual

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