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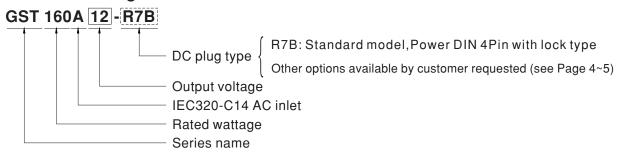
Features

- · 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, AU/NZ MEPS, EU ErP and CoC Version 5
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- -30~+70°C wide range working temperature
- Fully enclosed plastic case
- 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

GST160A is a highly reliable, 160W 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 85VAC 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 94% and the extremely low no-load power consumption below 0.15W,GST160A 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.GST160A is certified for the international safety regulations.

Model Encoding



Applications

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

GTIN CODE

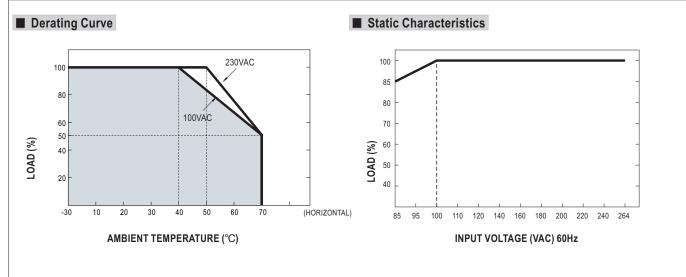
MW Search: https://www.meanwell.com/serviceGTIN.aspx



SPECIFIC									
ORDER NO.		GST160A12-R7B	GST160A15-R7B	GST160A20-R7B	GST160A24-R7B	GST160A36-R7B	GST160A48-R7B		
ONDER NO.	SAFETY MODEL NO.	GST160A12	GST160A15	GST160A20	GST160A24	GST160A36	GST160A48		
OUTPUT	DC VOLTAGE Note.2		15V	20V	24V	36V	48V		
	RATED CURRENT	11.5A	9.6A	8A	6.67A	4.44A	3.34A		
	CURRENT RANGE	0 ~ 11.5A	0 ~ 9.6A	0 ~ 8A	0.07A 0~6.67A	0 ~ 4.44A	0 ~ 3.34A		
		-		1					
	RATED POWER (max.)	138W	144W	160W	160W	160W	160W		
	RIPPLE & NOISE (max.) Note.3		100mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p		
	VOLTAGE TOLERANCE Note.4		±5.0%	±4.0%	±3.0%	±3.0%	±3.0%		
		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LOAD REGULATION	±5.0%	±5.0%	±4.0%	±3.0%	±3.0%	±3.0%		
	SETUP, RISE TIME Note.6	2000ms, 50ms / 230\	/AC 2500ms, 50						
	HOLD UP TIME (Typ.)	20ms / 230VAC 20ms / 115VAC at full load							
	VOLTAGE RANGE Note.7	85 ~ 264VAC 120 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	12V/15V:PF>0.93 / 2	2V/15V:PF>0.93 / 230VAC 20V,24V,48V:PF>0.94 / 230VAC PF>0.98 / 115VAC at full load						
NPUT	EFFICIENCY (Typ.)	90% 91% 93% 93% 92% 94%							
	AC CURRENT	1.85A / 115VAC							
	INRUSH CURRENT (max.)	Cold start 95A / 115VAC 120A / 230VAC							
	LEAKAGE CURRENT(max.)	0.75mA / 240VAC							
	, ,	105 ~ 150% rated output power							
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed							
PROTECTION	OVER VOLTAGE	105 ~ 135% rated output voltage							
	OVER TEMPERATURE	Protection type: Hiccup mode @ 10%load							
	OVER TEMPERATURE	- ''	Protection type: 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 (0~5))°C)						
	VIBRATION			60min. each along X, \					
	SAFETY STANDARDS Note. 8	UL62368-1, CSA C22.2 No.62368-1, TUV BS EN/EN62368-1, BSMI CNS14336, CCC GB4943.1, PSE J62368-1, 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:SHORT							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms	/ 500VDC / 25°C / 70°	% RH					
	EMC EMISSION	Parameter	arameter Standard				Test Level / Note		
SAFETY &		Conducted emission	CAN ICES	N55032(CISPR32),FCC S-3(B)/NMB-3(B),CNS1 C 020,MSIP KN32		Class B			
		Radiated emission	CAN ICES	N55032(CISPR32),FCC S-3(B)/NMB-3(B),CNS1 C 020,MSIP KN32		Class B			
EMC		Harmonic current		l61000-3-2,GB9254		Class A			
Note. 10)		Voltage flicker	BS EN/EN	BS EN/EN61000-3-3					
	EMC IMMUNITY	BS EN/EN55035							
		Parameter	Standard	Standard		Test Level /Note			
		ESD	BS EN/EN	BS EN/EN61000-4-2		Level 4, 15KV air; Level 4, 8KV contact			
		RF field susceptibility	/ BS EN/EN	S EN/EN61000-4-3		Level 2, 3V/m			
		EFT bursts	BS EN/EN	BS EN/EN61000-4-4		Level 3, 2KV			
		Surge susceptibility	BS EN/EI	BS EN/EN61000-4-5		Level 3, 1KV/Line-Line , 2KV/Line-FG			
		Conducted susceptibi	lity BS EN/EN	EN/EN61000-4-6		Level 2, 3V			
		Magnetic field immun	ity BS EN/EI	EN/EN61000-4-8		Level 2, 3A/m			
		Voltage dips , interrup	tion BS EN/E	N61000-4-11		>95% dip 0. 5 periods, 30% dip 25 peri >95% interruptions 250 periods			
	MTBF	2205.4K hrs min. Telcordia SR-332 (Bellcore) ; 236.4K hrs min. MIL-HDBK-217F (25°C)							
THERS	DIMENSION	175*72*35mm (L*W*H)							
	PACKING	0.66Kg; 20pcs/ 14.2Kg/ 0.95CUFT							
	PLUG	See page 4~5; Other type available by customer requested							
ONNECTOR	CABLE	See page 4~5; Other type available by customer requested							
IOTE	All parameters are specified at 2. DC voltage: The output voltage 3. Ripple & noise are measured a 4. Tolerance: includes set up toler. 5. Line regulation is measured frou 6. Length of set up time is measure.	t 230VAC input, rated load, 25° C 70% RH ambient. The set at point measure by plug terminal & 50% load. The set at point measure by plug terminal & 50% load. The set at point measure by plug terminal & 50% load. The set at 20MHz by using a 12" twisted pair terminated with a 0.1 μ F & 47 μ F capacitor. The set at 20 and 10 and 1							
	7. Derating may be needed under 8. The demand for Malaysia safet 9. The ambient temperature derat 10. The power supply is considere EMC directives. For guidance (as available on https://www.rr Product Liability Disclaimer: For	y is processed with the ing of 3.5°C/1000m with a as an independent u on how to perform these neanwell.com//Upload/P	order no. GST160A in fanless models and on hit, but the final equipm se EMC tests, please ropF/EMI_statement_en	1 -SIRIM by request. Plef 5° C/1000m with fan ment still need to re-confefer to "EMI testing of copf)	nodels for operating all firm that the whole systomponent power supp	titude higher than 2000m(stem complies with the	(6500ft).		

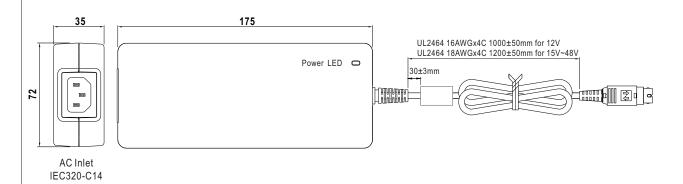
Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





■ Mechanical Specification

Case No. GS160A Unit:mm



■ DC output plug

O Standard plug: R7B

R7B			Pin Assignment			
				PIN NO.	OUTPUT	
and the same	2 3 1 4 KYCON KPPX-4P equivalent	2 (00) 3	1	+Vo		
		1,050	2	-Vo		
		✓ AC FG -V connected to AC FG	3	-Vo		
		-v connected to ACT G	4	+Vo		



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 Fork Style	Type No.	A OD	B ID	C	Quick Adapter Accessory	
Å C	P1J	5.5	2.1	11.0	Available for 24 ~ 48V	
(Straight)	P1M	5.5	2.5	11.0	(Current rating: 7.5A max.)	
Min DIN 4 Din with Look (formula)	Type No.	Pin Assignment				
Min. DIN 4 Pin with Lock (female)	Type No.	PIN No.	Output			
	R7BF	1	+\	' 0	- None	
(50) 23		2	-V	0		
14 14 14		3	-V	0		
KYCON KPJX-CM-4S equivalent		4	+\	' 0		
DIN 5 Bin (male)	Type No.	Pin Assignment				
DIN 5 Pin (male)	Type No.	PIN No.	Output			
	R1B	1	-V	0		
		2	-V	0	None	
4 2 5 0		3	+\/	' 0		
		4	-V	0		
		5	+\	' 0		
NEUTRIK XLR NC4FX equivalent	Tuna Na	Pin Assignment				
NEOTRIK ALK NO4FA equivalent	Type No.	PIN No.	Outp	out		
. A	MIC4	1	+\/	o		
		2	+V	o	None	
30 20		3	-V	0		
		4	-Vo			
MOLEX 39-01-2060 (4.2mm) equivalent	Type No.	Pin Assignment				
MOLEX 00 01 2000 (4.2mm) equivalent	турстчо.	PIN No.	Output			
	C6P	11	+\/			
		2	+\/			
450		3	+\		None	
123		4	-Ve			
FO and commented to entruit comments		5	-V			
FG not connected to output connector		6	-V	0		



AND 4 400700 0 (0 05)	Type No.	Pin Assignment		Quick Adapter	
AMP 1-480702-0 (6.35mm) equivalent	Type No.	PIN No.	Output	Accessory	
		1	+Vo		
	C4P	2	+Vo	None	
		3	-Vo	None	
FG not connected to output connector		4	-Vo		
Stripped and tipped loads	Type No	Pin	Assignment		
Stripped and tinned leads	Type No.	PIN No.	Output		
(red,blue) 1 2 L1 (black,white)	by customer	1	+Vo	None	
Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>5</u> 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