





























































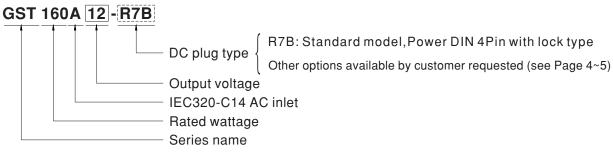
Features

- · 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



		GST160A15-R7B	GST160A20-R7B	GST160A24-R7B	GST160A36-R7B	GST160A48-R7B			
SAFETY MODEL NO.	GST160A12	GST160A15	GST160A20	GST160A24	GST160A36	GST160A48			
DC VOLTAGE Note.2	12V	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 ~ 6.67A	0 ~ 4.44A	0 ~ 3.34A			
RATED POWER (max.)	138W	144W	160W	160W	160W	160W			
AFETY MODEL NO. GST160A12 GST160A15 GST160A20 GST160A24 GST160A36 CV OLTAGE Note 2 12V 15V 20V 24V 36V 3	200mVp-p								
· ,			1			±3.0%			
				1 111		±1.0%			
						±3.0%			
					⊥3.0%	⊥3.0%			
•									
() (11 1080						
		370000							
						T			
EFFICIENCY (Typ.)	90%	91%	93%	93%	92%	94%			
AC CURRENT	1.85A / 115VAC	1A / 230VAC							
INRUSH CURRENT (max.)	Cold start 95A / 115	VAC 120A / 230V/	AC						
LEAKAGE CURRENT(max.)	0.75mA / 240VAC								
OVERLOAD									
PROTECTION OVER VOLTAGE	105 ~ 135% rated out	tput voltage	•						
OVER VOLTAGE			ıd						
OVED TEMPERATURE									
	7								
	· · · · · · · · · · · · · · · · · · ·								
·	, 0								
TEMP. COEFFICIENT									
VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
SAFETY STANDARDS Note. 8						88-1, AS/NZS 60950			
WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-	-FG: 2KVAC O/P-FG	S:SHORT						
ISOLATION RESISTANCE	I/P-O/P:100M Ohms	/ 500VDC / 25°C / 70%	% RH						
	Parameter Standard				Test Level / Note				
EMC EMISSION SAFETY &	Conducted emission	CAN ICES	6-3(B)/NMB-3(B),CNS1						
	Radiated emission	CANICES	6-3(B)/NMB-3(B),CNS1						
	Harmonic current	BS EN/EN	l61000-3-2,GB9254		Class A				
	Voltage flicker BS EN/EN61000-3-3								
	Parameter	Standard			Test Level /Note				
	ESD	BS EN/EN	N61000-4-2		Level 4, 15KV air; Level 4, 8KV contact				
	RF field susceptibility	BS EN/EN	N61000-4-3						
	EFT bursts	BS EN/EN	N61000-4-4		·				
EMC IMMUNITY					Level 3, 1KV/Line-Line , 2KV/Line-FG				
					· · · · · · · · · · · · · · · · · · ·				
					,				
					>95% dip 0. 5 periods, 30% dip 25 period >95% interruptions 250 periods				
MTBF	2205.4K hrs min.	Telcordia SD 222	! (Bellcore) ; 236.4K	hre min MII ⊔⊓	\sim 95% interruptions 2 DBK-217F (25°C)	oo periodo			
			(Delicole) , 230.4K	ınə IIIII. IVIIL-∏L	/DIC-2111 (20 C)				
DIMENSION	175*72*35mm (L*W*	,							
BA ALCINIA	0.66Kg; 20pcs/ 14.2k	Ng/ U.95CUF I							
PACKING				See page 4~5; Other type available by customer requested					
PLUG CABLE		,,	•						
	CURRENT RANGE RATED POWER (max.) RIPPLE & NOISE (max.) Note.3 VOLTAGE TOLERANCE Note.4 LINE REGULATION Note.5 LOAD REGULATION SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.) VOLTAGE RANGE Note.7 FREQUENCY RANGE POWER FACTOR (Typ.) AC CURRENT INRUSH CURRENT (max.) LEAKAGE CURRENT (max.) OVERLOAD OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE ISOLATION RESISTANCE	CURRENT RANGE 138W 138W RIPPLE & NOISE (max.) Note.3 80mVp-p VOLTAGE TOLERANCE Note.4 ±5.0% LINE REGULATION 15.0% 2000ms, 50ms / 230V 200ms / 230V	CURRENT RANGE 0 ~ 11.5A 0 ~ 9.6A	CURRENT RANGE 0 − 11.5A 0 − 9.6A 0 − 8A RATED POWER (max.) 138W 144W 160W RIPPLE & NOISE (max.) 138W 144W 160W RIPPLE & NOISE (max.) 45.0% ±5.0% ±4.0% LINE REGULATION ±5.0% ±5.0% ±4.0% SETUP, RISE TIME Note.5 ±1.0% ±1.0% ±1.0% BOUDD UP TIME (Typ.) 200ms, 50ms / 230VAC 2500ms, 50ms / 115VAC at full load 250ms / 230VAC 250ms, 50ms / 115VAC at full load VOLTAGE RANGE Note.7 85 ~ 264VAC 120 ~ 370VDC 750 × 264VAC 20v,24V,48V.PF>0.94 / 230VAC FREQUENCY RANGE 47 ~ 63Hz 93% 93% 93% FREQUENCY RANGE 47 ~ 63Hz 90% 91% 93% 93% FREQUENCY PRAGE 47 ~ 63Hz 200x120VAC 200,24V4,48V.PF>0.94 / 230VAC 120A / 230VAC 20V,24V4,48V.PF>0.94 / 230VAC 185A/ 115VAC 120A / 230VAC 20V,24V,48V.PF>0.94 / 230VAC 185ma/ 230VAC 185ma/ 230VAC 185ma/ 230VAC 185ma/ 230VAC 185ma/ 230VAC	CURRENT RANGE 0 ~ 11.5A	CURRENT RANGE			

- Tolerance: includes set up tolerance, line regulation, load regulation.
 Line regulation is measured from low line to high line at rated load.

NOTE

- S. 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 voltage. Please check the derating curve for more details.
 The demand for Malaysia safety is processed with the order no. GST160A □ -SIRIM by request. Please contact MEAN WELL for details.
 The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
 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 https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

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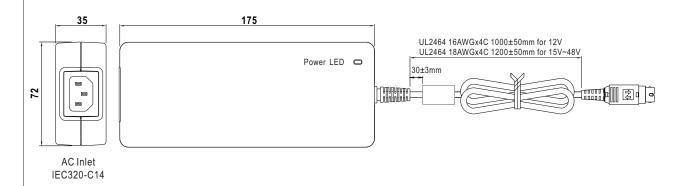
| S. Download Liability Disclaimer | For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



■ Derating Curve ■ Static Characteristics 230VAC 100 100 85 80 80 100VAC 60 70 50 LOAD (%) LOAD (%) 60 40 50 20 -30 (HORIZONTAL) 110 120 140 160 180 200 220 240 264 AMBIENT TEMPERATURE (°C) INPUT VOLTAGE (VAC) 60Hz

■ Mechanical Specification

Case No. GS160A Unit:mm



■ DC output plug

O Standard plug: R7B

	R7B	Pin Assignment				
			PIN NO.	OUTPUT		
2 3	23	2 0 0 3	1	+Vo		
	1 4	AC FG -V connected to AC FG	2	-Vo		
	KYCON KPPX-4P equivalent		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	С	Quick Adapter Accessory	
A 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.)	
		Pin Assignment				
Min. DIN 4 Pin with Lock (female)	Type No.	PIN No. Output				
	R7BF	1	+\		- None	
2 3 14 nagana		2	-V	0		
14 000000		3	-V	0		
KYCON KPJX-CM-4S equivalent		4	+\	' 0		
DIN 5 Bin (male)	Type No.	Pin Assignment				
DIN 5 Pin (male)	туре но.	PIN No.	Outp	ut		
		1	-V	0		
		2	-V	0	None	
420	R1B	3	+\/	' 0		
		4	-V	0		
		5	+\			
NEUTRIK XLR NC4FX equivalent	Type No.		Pin Assignment			
NEOTHIN KEIT HOTI K OQUIVAICIIL	туре но.	PIN No.	Outp			
A	MIC4	1	+\/		Mana	
		2	+V		None	
30 30		3	-V			
		4	-V			
MOLEX 39-01-2060 (4.2mm) equivalent	Type No.	Pin Assignment				
, , ,	71.	PIN No.	Outp			
		1	+\			
		3	+\/		None	
456	C6P		+\ -\/		140110	
		5	-VI		-	
FG not connected to output connector		6	-V			
		U	-V	J		



AND 4 400700 0 (0 05) a suivalent	Type No.	Pin Assignment		Quick Adapter	
AMP 1-480702-0 (6.35mm) equivalent	Type No.	PIN No.	Output	Accessory	
	C4P	1	+Vo		
		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