















































MS IEC60950-1 (optional)





Rendement

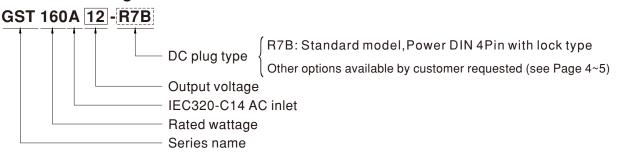
Features

- · 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



ORDER NO.		GST160A12-R7B	GST160A15-R7B	GST160A20-R7B	GST160A24-R	7B GST160A36-R7B	GST160A48-R7			
	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			
OUTPUT	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			
	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%			
			- 51070				⊥ 3.0 /0			
		2000ms, 50ms / 230\								
	HOLD UP TIME (Typ.)	20ms / 230VAC 20ms / 115VAC at full load								
		85 ~ 264VAC 120 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	12V/15V:PF>0.93 / 2	. , ,	48V:PF>0.94 / 230VA		115VAC at full load				
NPUT	EFFICIENCY (Typ.)	90%	91%	93%	93%	92%	94%			
	AC CURRENT	1.85A / 115VAC	1A / 230VAC							
	INRUSH CURRENT (max.)	Cold start 95A / 115VAC 120A / 230VAC								
	LEAKAGE CURRENT(max.)	0.75mA / 240VAC								
	OVERLOAD	105 ~ 150% rated output power								
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed								
	OVED VOLTAGE	105 ~ 135% rated output voltage								
ROTECTION	OVER VOLTAGE	Protection type : Hiccup mode @ 10%load								
	OVER TEMPERATURE	Protection type : Sh								
	WORKING TEMP.	/ '	1 0 7	, o ponor on to record						
	WORKING HUMIDITY	-30 ~ +70 °C (Refer to "Derating Curve") 20% ~ 90% RH non-condensing								
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85 °C , 10 ~ 95% RH non-condensing								
NVINONIILINI	TEMP. COEFFICIENT	±0.03% / °C (0~50°C)								
	VIBRATION									
	SAFETY STANDARDS Note. 8	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes UL62368-1, CSA C22.2 No.62368-1, TUV EN62368-1, BSMI CNS14336, CCC GB4943.1, PSE J62368-1, AS/NZS 60950.1,								
	SAFETY STANDARDS Note. 8	UL62368-1, CSA C22.2 N0.62368-1, TUV EN62368-1, BSMI CNS14336, CCC GB4943.1, PSE J62368-1, AS/N2S 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								
SAFETY & EMC (Note. 9)		Parameter	Standard			Test Level / Note				
		Conducted emission	CAN ICES	EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1 EAC TP TC 020,MSIP KN32		Class B				
	EMC EMISSION	Radiated emission	CANICES	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	EN61000-	EN61000-3-2,GB9254		Class A				
		Voltage flicker	EN61000-	EN61000-3-3						
		Parameter	Standard			Test Level /Note				
	EMC IMMUNITY	ESD	EN61000-	EN61000-4-2		Level 4, 15KV air; Level 4, 8KV contact				
		RF field susceptibility	/ EN61000-	EN61000-4-3		Level 2, 3V/m				
		EFT bursts	EN61000-	EN61000-4-4		Level 2, 1KV				
		Surge susceptibility	EN61000-	EN61000-4-5		Level 3, 1KV/Line-Line , 2KV/Line-FG				
		Conducted susceptibi	lity EN61000-	EN61000-4-6		Level 2, 3V				
		Magnetic field immun	ity EN61000-	EN61000-4-8		Level 2, 3A/m				
		Voltage dips , interrup	etion EN61000-	EN61000-4-11		>95% dip 0. 5 periods, 30% dip 25 periods >95% interruptions 250 periods				
	MTBF	236.4K hrs min. MIL-HDBK-217F(25°C)								
OTHERS	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								
CONNECTOR	CABLE	See page 4~5; Other type available by customer requested								
		See page 4~5; Other type available by customer requested iffed at 230VAC input, rated load, 25°C 70% RH ambient. voltage set at point measure by plug terminal & 50% load. sured at 20MHz by using a 12" twisted pair terminated with a 0.1 µf & 47 µf capacitor. up tolerance, line regulation, load regulation. ured from low line to high line at rated load. measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.								

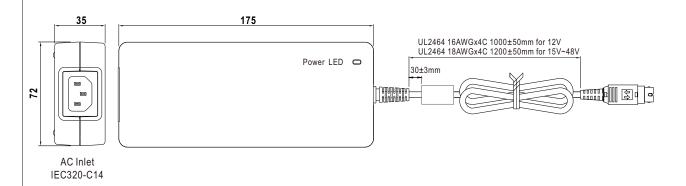
- Defaulting may be needed under low input voltage. Please check the defaulting curve for more details.
 The demand for Malaysia safety is processed with the order no. GST160A ☐ -SIRIM by request. Please contact MEAN WELL for details.
 The power supply is considered as an independent unit, but the final 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



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

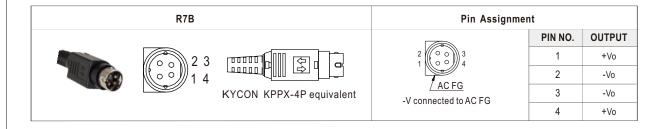
■ Mechanical Specification

Case No. GS160A Unit:mm



■ DC output plug

O Standard plug: R7B





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.	Α	В	С	Quick Adapter	
· ·	туре по.	OD	ID	L	Accessory	
	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 / Din with Look (female)	Type No.	Pin Assignment				
Min. DIN 4 Pin with Lock (female)		PIN No. Output				
	R7BF	1	+\	' 0		
2 3 1 4 TOTOTOTOTO		2	-V	0	None	
14 Lannag		3	-V	0	INOTIE	
KYCON KPJX-CM-4S equivalent		4	+\	' 0		
DIN 5 Pin (mala)	Type No.	Pin Assignment				
DIN 5 Pin (male)		PIN No.	Outp	ut		
	R1B	1	-V	0		
		2	-V	0	None	
4 2 5 6		3	+\/	' 0		
		4	-V	0		
		5	+\	' 0		
NEUTRIK XLR NC4FX equivalent	Tura Na	Pin Assignment				
NEOTKIK ALK NO41 A equivalent	Type No.	PIN No.	Outp	out	None	
. 6	MIC4	1	+\/	'o		
		2	+V	о .		
30 20		3	-V			
		4	-Ve			
MOLEX 39-01-2060 (4.2mm) equivalent	Type No.	Pin Assignment				
MOLEX 60 01 2000 (4.2mm) equivalent		PIN No.	Outp		1	
	C6P	1	+\/	-		
		2	+\/			
456		3	+\		None	
123		4	-V			
FO and comments the state of the second		5	-V		-	
FG not connected to output connector		6	-V	0		



AMD 4 400700 0 (0.05) i lt	Type No	Pin Assignment		Quick Adapter
AMP 1-480702-0 (6.35mm) equivalent	Type No.	PIN No.	Output	Accessory
	C4P	1	+Vo	
3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		2	+Vo	None
		3	-Vo	None
FG not connected to output connector		4	-Vo	
Ctripped and tipped leads	Type No.	Pin Assignment		
Stripped and tinned leads		PIN No.	Output	
(red,blue)	by customer	1	+Vo	None
L1 (black,white) 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