







































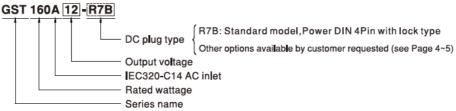
### Features

- · 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
- · 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





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

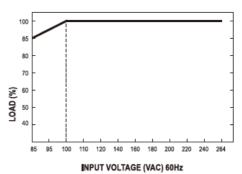
ORDER NO	١,	GST160A12-R7B	GST160A15-R7B	GST160A20-R7B	GST160A24-R7	B GST160A36-R7B	GST160A48-R7	
	SAFETY MODEL NO.	GST160A12	GST160A15	GST160A20	GST160A24	GST160A36	GST160A48	
	DC VOLTAGE Note.2	12V	15V	20V	24V	36V	48V	
	RATED CURRENT	11.5A	9.6A	8A	6.67A	4.44A	3.34A	
	CURRENT RANGE	0 ~ 11.5A	0~9,6A	0~8A	0 ~ 6,67A	0 ~ 4,44A	0 ~ 3,34A	
	RATED POWER (max.)	138W	144W	160W	160W	160W	160W	
	RIPPLE & NOISE (max.) Note,3	80mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p	
DUTPUT	VOLTAGE TOLERANCE Note,4		±5.0%	±4.0%	±3,0%	±3.0%	±3.0%	
	LINE REGULATION Note,5		±1.0%	±1.0%	±1,0%	±1.0%	±1.0%	
	LOAD REGULATION	±5.0%	±5.0%	±4.0%	±3.0%	±3.0%	±3.0%	
		2000ms, 50ms / 230						
	,	2000ms, 50ms / 230VAC 2500ms, 50ms / 115VAC at full load 20ms / 230VAC 20ms / 115VAC at full load						
	HOLD UP TIME (Typ.)  VOLTAGE RANGE Note.7			uli load				
	FREQUENCY RANGE	35 ~ 264VAC 120 ~ 370VDC						
UDUT	POWER FACTOR (Typ.)		2V/15V:PF>0,93 / 230VAC					
NPUT	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	105 ~ 150% rated o	utput power					
	OVERLOAD	Protection type : His	ccup mode, recovers	automatical <b>l</b> y after fa	au <b>l</b> t condition is re	moved		
DOTECTION		105 ~ 135% rated ou	tput voltage					
ROTECTION	OVER VOLTAGE	Protection type : Hiccup mode @ 10%load						
	OVER TEMPERATURE	Protection type : Sh	ut down o/n voltage	re-power on to recove	er			
	WORKING TEMP.	-30 ~ +70°C (Refer t		ie-power on to recove	GI			
	WORKING HUMIDITY	20% ~ 90% RH non-						
und no a luminar				ina				
ENVIRONMENT		-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_8	UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943, PSE J60950-1, AS/NZS 60950.1, KC K60950-1, EAC TP TC 004 approved; SIRIM MS [EC60950-1 (optional) approved						
	WITHSTAND VOLTAGE				(optional) appro	700		
	ISOLATION RESISTANCE	VP-O/P: 3KVAC						
SAFETY &	DOCATION REGISTANCE		Standard		1.	Γest Leve / Note		
	EMC EMISSION	Conducted emission EN55032		2 (CISPR32),FCC PART 15 / CISPR22 S-3(B)/NMB-3(B),CNS13438,GB17625.1 TC 020,MSIP KN32				
		Radiated emission	CAN ICE	(CISPR32),FCC PART S-3(B)/NMB-3(B),CNS1 TC 020,MSIP KN32	19499 OD17696 1	Class B		
MC		Harmonic current	EN61000	)-3-2,GB9254		Class A		
lote, 9)		Voltage flicker	EN61000	)-3-3		_		
		Parameter	Standard	1		Test Level /Note		
		ESD	EN61000	)-4-2		Level 4, 15KV air; Level 4	, 8KV contact	
		RF field susceptibility EN61000-4-3			Level 2, 3V/m			
		EFT bursts	EN61000			Level 2, 1KV		
	EMC IMMUNITY	Surge susceptibility	EN61000			Level 3, 1KV/Line-Line	, 2KV/Line-FG	
		Conducted susceptib				Level 2, 3V		
		Magnetic field immun	,			Level 2, 3A/m		
		Voltage dips , interru	,			>95% dip 0. 5 periods, >95% interruptions 250		
	MTBF	236,4K hrs min, MIL	-HDBK-217F(25°C)					
THERS	DIMENSION	175*72*35mm (L*W*H)						
	PACKING	0.66Kg; 20pcs/ 14.2Kg/ 1.06CUFT						
	PLUG	See page 4~5 ; Other type available by customer requested						
NNECTOR	CABLE	See page 4-5; Other type available by customer requested						
OTE	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 0.1 µf & 47 µf 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. Derating may be needed under low input voltage. Please check the derating curve for more details.  8. The demand for Malaysia safety is processed with the order no. GST160A ☐ SRIMI by request, Please contact MEAN WELL for details.  9. 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 supples."  (as available on http://www.meanrewle.com)							



### ■ Derating Curve

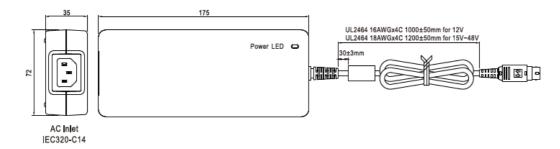
# 230VAC AMBIENT TEMPERATURE (°C)

### ■ Static Characteristics



### ■ Mechanical Specification

Case No. GS160A Unit:mm



### ■ DC output plug

### O Standard plug: R7B

R7B		Pin Assi	Pin Assignment			
			PIN NO.	OUTPUT		
	23 10000	2 (3)	.1	+Vo		
1	(60))14		2	-Vo		
	KYCON KPPX-4F	quivalent AC FG  -V connected to AC FG	3	-Vo		
		-v connected to AC FG	4	+Vo		



# Optional DC plug:

AP. DISTANCE SELECTION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMIN	T No.	Pin Assignment	
Min. DIN 4 Pin with Lock (female)	Type No.	PIN No.	Output
W		1	+Vo
(50) 2.3 mmmle	R7BF	2	-Vo
2 3 TANANA 1 4 TANANA 1		3	-Vo
KYCON KPJX-CM-4S equivalent		4	+Vo
DIN F Din /male)	- 11	Pin Assignment	
DIN 5 Pin (male)	Type No.	PIN No.	Output
	R1B	1	-Vo
		2	-Vo
		3	+Vo
		4	-Vo
		5	+Vo
NEUTRIK XLR NC4FX equivalent	Type No.	Pin Assignment	
NEOTRIK ALK NO4FA equivalent		PIN No.	Output
		1	+Vo
	14104	2	+Vo
	MIC4	3	-Vo
		4	-Vo
MOLEX 39-01-2060 (4.2mm) equivalent	Type No.	Pin Assignment	
MOLEX 00-01-2000 (4.2mm) equivalent		PIN No.	Output
		1	+Vo
_6_	C6P	2	+Vo
450		3	+Vo
123		4	-Vo
		5	-Vo
		6	-Vo
AMD 1 490702 0 (6 25mm) agriculant	Type No.	Pin A	Assignment
AMP 1-480702-0 (6.35mm) equivalent		PIN No.	Output
	C4P	1	+Vo
		2	+Vo
		3	-Vo
_		4	-Vo
	Type No.	Pin Assignment	
Stripped and tinned leads		PIN No.	Output
L (red,blue)	by customer	1	+Vo
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