

SPECIFICATION

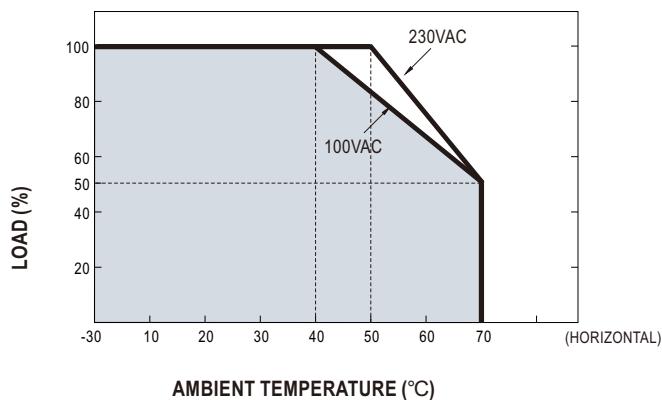
ORDER NO.	GST160A12-R7B	GST160A15-R7B	GST160A20-R7B	GST160A24-R7B	GST160A36-R7B	GST160A48-R7B					
OUTPUT	SAFETY MODEL NO.	GST160A12	GST160A15	GST160A20	GST160A24	GST160A36	GST160A48				
	DC VOLTAGE Note.2	12V	15V	20V	24V	36V	48V				
	RATED CURRENT	11.5A	9.6A	8A	6.67A	4.44A	3.34A				
	CURRENT RANGE	0 ~ 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				
	RIPLPE & NOISE (max.) Note.3	80mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p				
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±4.0%	±3.0%	±3.0%	±3.0%				
	LINE REGULATION Note.5	±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%				
INPUT	SETUP, RISE TIME Note.6	2000ms, 50ms / 230VAC	2500ms, 50ms / 115VAC	at full load							
	HOLD UP TIME (Typ.)	20ms / 230VAC	20ms / 115VAC	at full load							
PROTECTION	VOLTAGE RANGE Note.7	85 ~ 264VAC	120 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	12V/15V:PF>0.93 / 230VAC	20V,24V,48V:PF>0.94 / 230VAC	PF>0.98 / 115VAC	at full load						
	EFFICIENCY (Typ.)	90%	91%	93%	93%	92%	94%				
	AC CURRENT	1.85A / 115VAC	1A / 230VAC								
	INRUSH CURRENT (max.)	Cold start 95A / 115VAC	120A / 230VAC								
ENVIRONMENT	LEAKAGE CURRENT(max.)	0.75mA / 240VAC									
	OVERLOAD	105 ~ 150% rated output power									
		Protection type : Hiccup mode, recovers automatically after fault condition is removed									
	OVER VOLTAGE	105 ~ 135% rated output voltage									
		Protection type : Hiccup mode @ 10%load									
SAFETY & EMC (Note. 9)	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									
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C , 10 ~ 95% RH non-condensing									
	TEMP. COEFFICIENT	± 0.03% / °C (0~50°C)									
SAFETY & EMC (Note. 9)	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
	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	Standard	Test Level / Note							
SAFETY & EMC (Note. 9)	Conducted emission	BS EN/EN55032(CISPR32), FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B), CNS13438, GB17625.1 EAC TP TC 020, MSIP KN32	Class B								
	Radiated emission	BS EN/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	BS EN/EN61000-3-2, GB9254	Class A								
	Voltage flicker	BS EN/EN61000-3-3	-----								
	EMC IMMUNITY	Parameter	Standard	Test Level / Note							
SAFETY & EMC (Note. 9)	ESD	BS EN/EN61000-4-2	Level 4, 15KV air; Level 4, 8KV contact								
	RF field susceptibility	BS EN/EN61000-4-3	Level 2, 3V/m								
	EFT bursts	BS EN/EN61000-4-4	Level 2, 1KV								
	Surge susceptibility	BS EN/EN61000-4-5	Level 3, 1KV/Line-Line , 2KV/Line-FG								
	Conducted susceptibility	BS EN/EN61000-4-6	Level 2, 3V								
OTHERS	Magnetic field immunity	BS EN/EN61000-4-8	Level 2, 3A/m								
	Voltage dips , interruption	BS EN/EN61000-4-11	>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods								
CONNECTOR	MTBF	236.4K hrs min. MIL-HDBK-217F(25°C)									
	DIMENSION	175*72*35mm (L*W*H)									
CONNECTOR	PACKING	0.66Kg; 20pcs/ 14.2Kg/ 0.95CUFT									
	PLUG	See page 4~5 ; Other type available by customer requested									
NOTE	CABLE	See page 4~5 ; Other type available by customer requested									
	1. 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 0.1μf & 47μf 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 □ -SIRIM 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-confirmed 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											



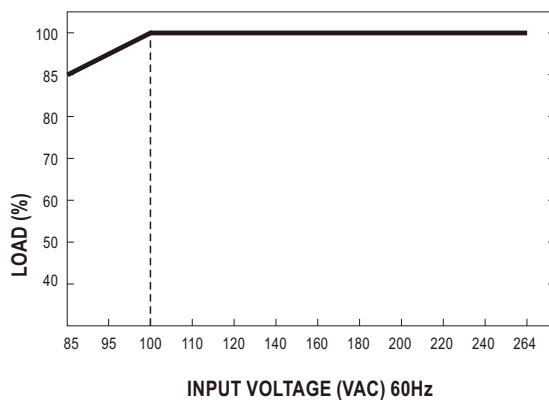
160W AC-DC Reliable Green Industrial Adaptor

GST160A series

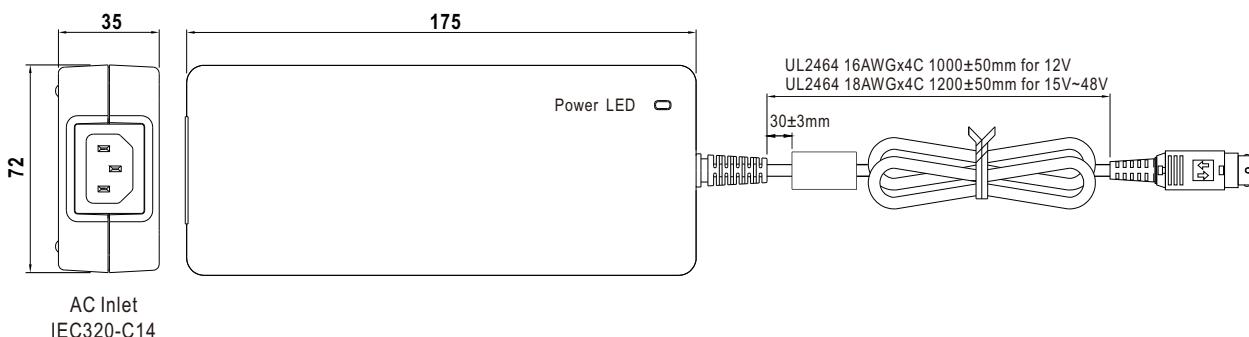
■ Derating Curve



■ Static Characteristics

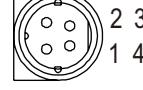
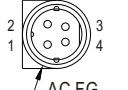


■ Mechanical Specification

Case No. GS160A
Unit:mm

■ DC output plug

◎ Standard plug: R7B

R7B		Pin Assignment	
  2 3 1 4		 -V connected to AC FG	
KYCON KPPX-4P equivalent		PIN NO.	OUTPUT
		1	+Vo
		2	-Vo
		3	-Vo
		4	+Vo

◎ DC plug changeable through:

(1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)

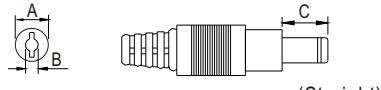
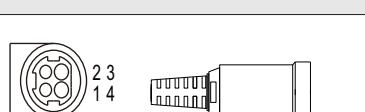
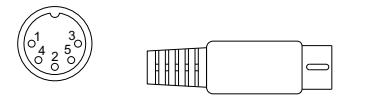
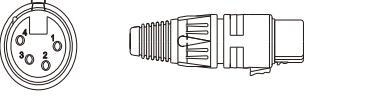
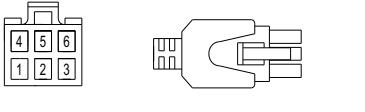
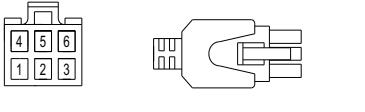
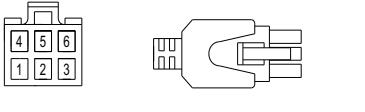
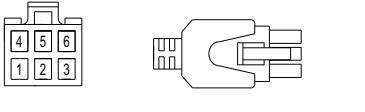
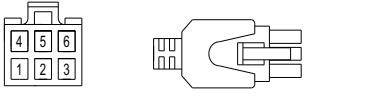
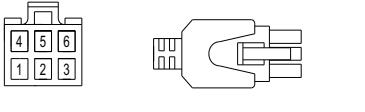
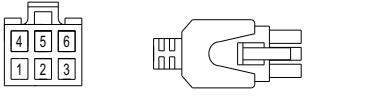
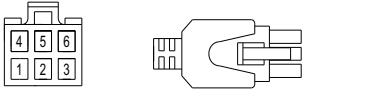
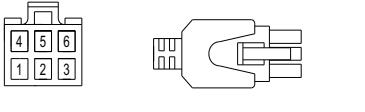
(2) Quick adapter accessory (sold separately without MOQ)

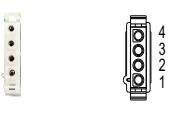
Please refer to below table and online selection guide : https://www.meanwell.com/upload/pdf/DC_plug.pdf

Example quick adapter accessory:



◎ Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork Style	Type No.	A	B	C	Quick Adapter Accessory			
		OD	ID	L				
  (Straight)	P1J	5.5	2.1	11.0	Available for 24 ~ 48V (Current rating: 7.5A max.)			
	P1M	5.5	2.5	11.0				
Min. DIN 4 Pin with Lock (female)		Pin Assignment		  KYCON KPJX-CM-4S equivalent				
  DIN 5 Pin (male)		Pin Assignment						
		PIN No.	Output	None				
		1	+Vo					
		2	-Vo					
		3	-Vo					
NEUTRIK XLR NC4FX equivalent		Pin Assignment			  NEUTRIK XLR NC4FX equivalent			
  MOLEX 39-01-2060 (4.2mm) equivalent		Pin Assignment						
		PIN No.	Output	None				
		1	+Vo					
		2	+Vo					
		3	-Vo					
FG not connected to output connector		Pin Assignment			  MOLEX 39-01-2060 (4.2mm) equivalent			
  C6P		Pin Assignment						
		PIN No.	Output					
		1	+Vo					
		2	+Vo					
		3	+Vo					
		4	-Vo					
FG not connected to output connector		Pin Assignment			  C6P			
  C6P		Pin Assignment						
		PIN No.	Output					
		1	+Vo					
		2	+Vo					
		3	+Vo					
		4	-Vo					
FG not connected to output connector		Pin Assignment			  C6P			
  C6P		Pin Assignment						
		PIN No.	Output					
		1	+Vo					
		2	+Vo					
		3	+Vo					
		4	-Vo					
FG not connected to output connector		Pin Assignment			  C6P			
  C6P		Pin Assignment						
		PIN No.	Output					
		1	+Vo					
		2	+Vo					
		3	+Vo					
		4	-Vo					

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

■ Installation Manual

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