MEAN WELL

GS160 SERIES

160 Watt External Power Supply

Measures: 6.89 x 2.83 x 1.38”

■ Features :

- Universal AC input / Full range
- Built-in active PFC function
- No load power consumption<0.5W
- Energy efficiency Level Ⅴ
- Comply with EISA 2007, NRCan, AU/NZ MEPS and EU ErP
- 3 pole AC inlet IEC320-C14
- Class Ⅰ power (with earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- LED indicator for power on
- 2 years warranty

SPECIFICATION

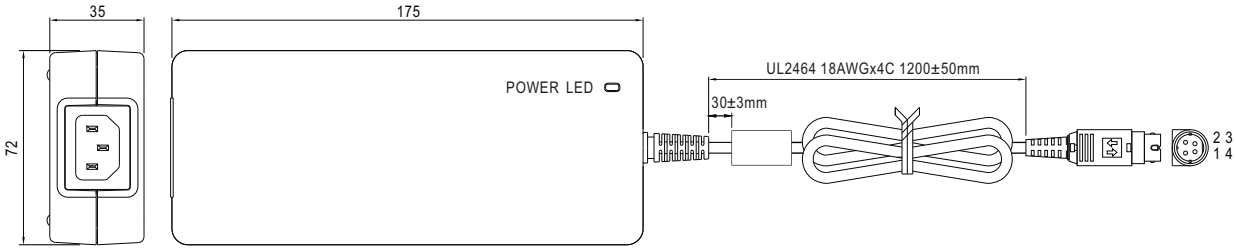
ORDER NO.		GS160A12-R7B	GS160A15-R7B	GS160A20-R7B	GS160A24-R7B	GS160A48-R7B
OUTPUT	SAFETY MODEL NO.	GS160A12	GS160A15	GS160A20	GS160A24	GS160A48
	DC VOLTAGE	12V	15V	20V	24V	48V
	RATED CURRENT	11.5A	9.6A	8A	6.67A	3.34A
	CURRENT RANGE	0 ~ 11.5A	0 ~ 9.6A	0 ~ 8A	0 ~ 6.67A	0 ~ 3.34A
	RATED POWER (max.)	138W	144W	160W	160W	160W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	100mVp-p	150mVp-p	180mVp-p	240mVp-p
	VOLTAGE TOLERANCE Note.3	±5.0%	±5.0%	±4.0%	±3.0%	±3.0%
	LINE REGULATION Note.4	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±5.0%	±5.0%	±4.0%	±3.0%	±3.0%
	SETUP, RISE TIME Note.5	2000ms, 20ms / 230VAC 2500ms, 20ms / 115VAC at full load				
	HOLD UP TIME (Typ.)	20ms / 230VAC 20ms / 115VAC at full load				
INPUT	VOLTAGE RANGE Note.6	85 ~ 264VAC 120 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF>0.95 / 230VAC PF>0.98 / 115VAC at full load				
	EFFICIENCY (Typ.)	89%	90%	92%	92.5%	94%
	AC CURRENT	1.85A / 115VAC 1A / 230VAC				
	INRUSH CURRENT (max.)	120A / 230VAC				
	LEAKAGE CURRENT(max.)	0.75mA / 240VAC				
PROTECTION	OVERLOAD	105 ~ 135% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	105 ~ 135% rated output voltage				
		Protection type : Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE	90℃ ±10℃ (RTH2) detect on inside ambient temperature				
		Protection type : Shut down o/p voltage, re-power on to recover				
ENVIRONMENT	WORKING TEMP.	-30 ~ +70℃ (Refer to "Derating Curve")				
	WORKING HUMIDITY	20% ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃ , 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03% / ℃ (0~50℃)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY & EMC (Note. 7)	SAFETY STANDARDS	UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943, PSE J60950-1(except for 48V) approved				
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC				
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃/ 70% RH				
	EMC EMISSION	Compliance to EN55022 class B, EN61000-3-2,3, FCC PART 15 / CISPR22 class B, CNS13438 class B, GB9254, GB17625.1				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A				
OTHERS	MTBF	290.3K hrs min. MIL-HDBK-217F(25℃)				
	DIMENSION	175*72*35mm (L*W*H)				
	PACKING	0.66Kg; 20pcs/ 14.2Kg/ 0.85CUFT				
CONNECTOR	PLUG	See page 2 ; Other type available by customer requested				
	CABLE	See page 2 ; Other type available by customer requested				

NOTE

1. All parameters are specified at 230VAC input, rated load, 25℃ 70% RH ambient.
2. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
3. Tolerance: includes set up tolerance, line regulation, load regulation.
4. Line regulation is measured from low line to high line at rated load.
5. 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.
6. Derating may be needed under low input voltage. Please check the derating curve for more details.
7. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets 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)

■ Mechanical Specification

Case No.GS160A Unit:mm



■ Plug Assignment

Standard plug : power DIN 4 pin with lock type, KYCON KPPX-4P equivalent

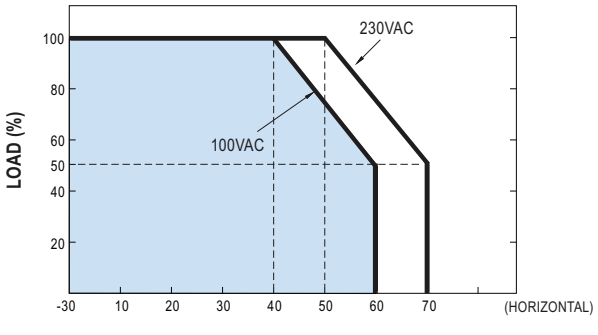
R7B

PIN NO.	OUTPUT
1,4	+V
2,3	-V

AC FG

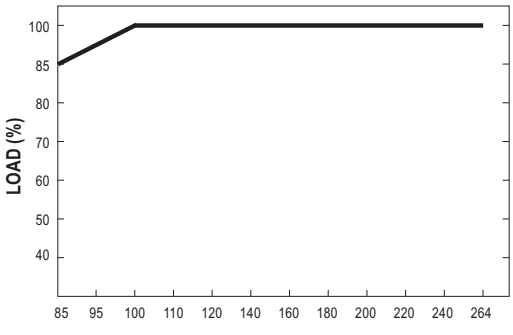
-V connected to AC FG

■ Derating Curve



AMBIENT TEMPERATURE (℃)

■ Static Characteristics



INPUT VOLTAGE (VAC) 60Hz