94%





Features:

- · Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- · Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature

- Fully enclosed plastic case
- Approvals: UL / CUL / TUV / BSMI / CCC / CB / FCC / CE
- Class I power (with earth pin)
- · LED indicator for power on
- No load power consumption<0.5W
- Meet EISA 2007(Energy Independence and Security Act)

SPECI

SPECIFICATION			IFC FOR EGE CO CD FE CE			
ORDER NO.		GS160A12-R7B	GS160A15-R7B	GS160A20-R7B	GS160A24-R7B	GS160A48-R7B
	SAFETY MODEL NO.	GS160A12	GS160A15	GS160A20	GS160A24	GS160A48
	DC VOLTAGE	12V	15V	20V	24V	48V

INPUT
INFOI

(Note. 5)

NOTE

AC CURRENT

OUTPUT

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.6	2000ms, 20ms / 230VAC	2500ms, 20ms / 115V	AC at full load		
HOLD UP TIME (Typ.)	20ms / 230VAC 20m	s / 115VAC at full load			

VOLTAGE RANGE Note	7 85 ~ 264VAC	120 ~ 370	OVDC	
FREQUENCY RANGE	47 ~ 63Hz			
POWER FACTOR (Typ.)	PF>0.95 / 230\	/AC F	PF>0.98 / 115VAC at full loa	ad
EEEICIENCY (Typ.)	80%		90%	020

1.85A / 115VAC

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

1A / 230VAC

	Protection type: Shut down o/p voltage, re-power on to recover
OVER TEMPERATURE	90°C ±10°C (RTH2) detect on inside ambient temperature
OVER TEMPERATURE	Protection type: Shut down o/p voltage, re-power on to recover

	i Totoction type . Onat down o/p voitage, re-power
WORKING TEMP.	-30 ~ +70°C (Refer to output load derating curve)
WORKING HUMIDITY	20% ~ 90% RH non-condensing

ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH
	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	UL60950-1, TUV EN60950-1, BSMI CNS14336, CCC GB4943 approved

	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH
EMC	EMI CONDUCTION & DADIATION	Camaliana & ENECODO/CICDDOO\ ENCADOA O

ISOLATION RESISTANCE	1/F-0/F.100M OHIIIS / 300VDC / 23 C/ 70% KH
EMI CONDUCTION & RADIATION	Compliance to EN55022(CISPR22) ,EN61204-3 class B, CNS13438 class B, GB9254-1 class B
HARMONIC CURRENT	Compliance to EN61000-3-2.3, GB17625.1

EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A
MTBF	290.3Khrs min. MIL-HDBK-217F(25°C)

OTHERS	DIMENSION	175*72*35mm (L*W*H)	
	PACKING	0.66Kg; 20pcs/ 14.2Kg/ 0.85CUFT	

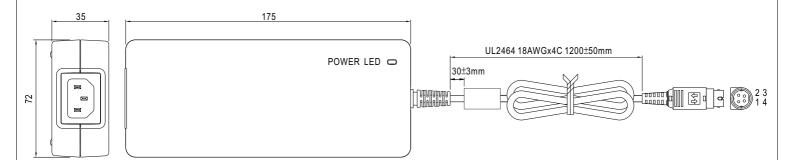
	CONNECTOR	PLUG	See page 2; Other type available by customer requested
		CABLE	See page 2; Other type available by customer requested

- 1.All parameters are specified at 230VAC input, rated load, 25 °C 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.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.
- 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.



■ Mechanical Specification

Case No.997A Unit:mm



■ Plug Assignment

Standard plug: R7B

R7B				
	PIN NO.	OUTPUT		
2 ((0 0)) 3	1,4	+V		
	2,3	-V		
AC FG	•			

-V connected to AC FG

■ Derating Curve

230VAC 100 80 60 100VAC 50 LOAD (%) 40 20 (HORIZONTAL) -30 50 10 20 40 70 AMBIENT TEMPERATURE (°C)

■ Static Characteristics

