



## Features:

- 2 stage charging characteristic
- Universal AC input / Full range
- Built-in active PFC function, PF>0.94
- No load power consumption<1W</li>
- 3 pole AC inlet IEC320-C14
- Class I power ( with earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Fully enclosed plastic case
- · 2 color LED indicator for charging status
- Approvals: TUV / UL / CB / FCC / CE
- 2 years warranty











ORDER NO.	OUTPUT CONNECTOR	SAFETY			
GC160Axx-R7B (standard model)	4pin power din	TUV / CB / FCC / CE			
GC160Axx-AD1 (optional model)	Anderson connector	UL/TUV/CB/FCC/CE			
GC160Axx-□ xx=12,24,48; □=R7B,AD1					

## **SPECIFICATION**

ORDER NO.		GC160A12-	GC160A24-	GC160A48-		
ОИТРИТ	SAFETY MODEL NO.	GC160A12	GC160A24	GC160A48		
	DC VOLTAGE (Typ.)	13.6V	27.2V	54.4V		
	RECOMMENDED BATTERY CAPACITY Note.2	60 ~160Ah	30 ~ 90Ah	15 ~ 45Ah		
	CONTINUOS OUTPUT CURRENT (Typ.)	10A	5.89A	2.95A		
	RATED POWER	136W	160.2W	160.5W		
	LED INDICATOR	Charging(CC) : RED Floating charging(CV) : GREEN				
INPUT	VOLTAGE RANGE Note.3	85 ~ 264VAC 120 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF>0.94 / 230VAC PF>0.98 / 115VAC at full load				
	EFFICIENCY (Typ.)	89%	92.5%	94%		
	AC CURRENT	1.85A / 115VAC 1A / 230VAC				
	INRUSH CURRENT (max.)	120A / 230VAC				
	LEAKAGE CURRENT(max.)	0.75mA / 240VAC				
	OVERLOAD Note.4	90 ~ 110% rated output power				
PROTECTION		Protection type: Constant current limiting recovers automatically after fault condition is removed				
	SHORT CIRCUIT	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°C ±10°C (RTH2) detect on inside ambient temperature				
		Protection type : Shut down o/p voltage, re-power on to recover				
ENVIRONMENT	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				
	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	UL1012 (for GC160Axx-AD1 only), TUV EN60950-1 approved				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC				
EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH				
(Note. 5)	EMC EMISSION	Compliance to EN55022 class B, FCC PART 15 class B / CISPR22 class B, EN61000-3-2,3				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A				
OTHERS	MTBF	274.1Khrs min. MIL-HDBK-217F(25°C)				
	DIMENSION	175*72*35mm (L*W*H)				
	PACKING	0.7Kg; 20pcs/15Kg/0.85CUFT(GC160Axx-R7B) 0.77Kg; 20pcs/16.4Kg/1.15CUFT(GC160Axx-AD1)				
CONNECTOR	PLUG	See page 2; Other type available by customer requested				
	CABLE	See page 2; Other type available by customer requested				
NOTE		ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. sted range, please consult your battery manufacturer for their suggestions about maximum charging current limitation.				

- 3. Derating may be needed under low input voltage. Please check the derating curve for more details.
- 4. Constant current operation region is within 50~100% rated output voltage.
- 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



