



### ■ Features :

- Charger for lead-acid batteries (flooded,Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese) (Note.1)
- 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: UL / TUV / EAC / CB / FCC / CE
- 2 years warranty











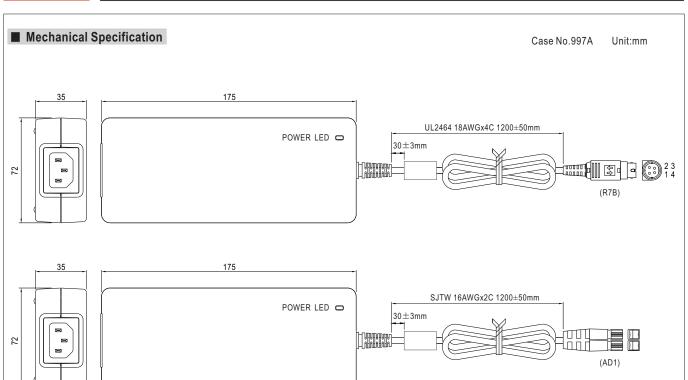
ORDER NO.	OUTPUT CONNECTOR SAFETY		
GC160Axx-R7B (standard model)	4pin power din	TUV/CB/FCC/CE/EAC	
GC160Axx-AD1 (optional model)	Anderson connector	UL/TUV/CB/FCC/CE/EAC	
GC160Axx-□ xx=12,24,48; □=R7B,AD1			

#### **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.3	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			
	VOLTAGE RANGE Note.4	85 ~ 264VAC 120 ~ 370VDC			
INPUT	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			
PROTECTION OVER LOAD NOTE OVER VOLTAGE  OVER TEMPERATURE	OVERLOAD Note 5	90 ~ 110% rated output power			
	OVERLOAD Note.5	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			
	OVED VOLTACE	105 ~ 135% rated output voltage			
	OVER VOLIAGE	Protection type : Shut down o/p voltage, re-power on to recover			
	OVED TEMPERATURE	$90^{\circ}\text{C} \pm 10^{\circ}\text{C}$ (RTH2) detect on inside ambient temperature			
	OVER TEIMPERATURE	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			
ENVIRONMENT	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 EN62368-1, EAC TP TC 004 approved			
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC			
EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH			
(Note. 6) OTHERS	EMC EMISSION	Compliance to EN55032 class B, EN61000-3-2,3, FCC PART 15 / CISPR22 class B, CAN ICES-3(B)-NMB-(B), EAC TP TC 020			
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A, EAC TP TC 020			
	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 custo	<u> </u>		
	CABLE	See page 2; Other type available by customer requested			
NOTE	All parameters NOT specially     This is MeanWell's suggested     Derating may be needed under     Constant current operation reg	charger specification may be required for different battery specification. Please contact battery vendor and MEAN WELL for details.  NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  Ill's suggested range, please consult your battery manufacturer for their suggestions about maximum charging current limitation.  e needed under low input voltage. Please check the derating curve for more details.  to operation region is within 50~100% rated output voltage.  oly 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			

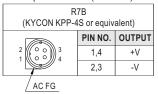
7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).





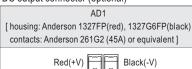
# ■ Plug Assignment

#### DC output connector (standard)

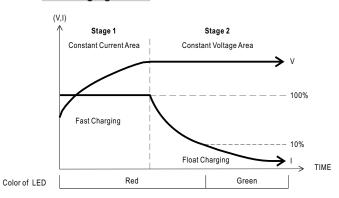


-V connected to AC FG

## DC output connector (optional)



## ■ Charging Curve



Model	Suggested Battery capacity	
GC160A12	60-160Ah	
GC160A24	30-90Ah	
GC160A48	15-45Ah	

Suitable for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese)



