Video

User's Manual





■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

■ 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
- 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 / UKCA
- 2 years warranty









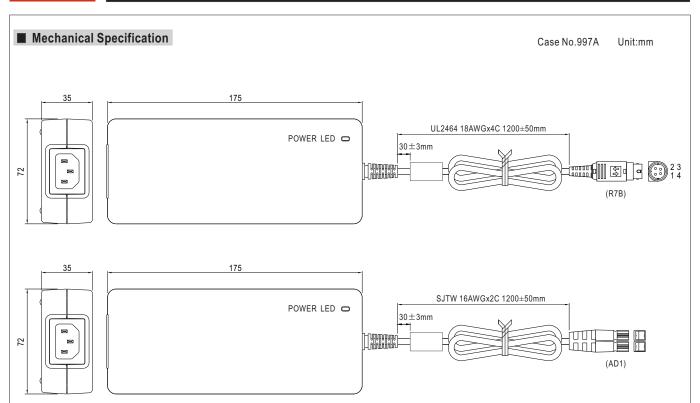
ORDER NO.	OUTPUT CONNECTOR	SAFETY		
GC160Axx-R7B (standard model)	4pin power din	TUV/CB/FCC/CE/UKCA/EAC		
GC160Axx-AD1 (standard model)	Anderson connector	UL/TUV/CB/FCC/CE/UKCA/EAC		
GC160Axx-□ xx=12,24,48; □=R7B,AD1				

SPECIFICATION

ORDER NO.		GC160A12-	GC160A24-	GC160A48-	
OUTPUT	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			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF>0.94 / 230VAC PF>0.98 / 115VAC at full load			
INPUT	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	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			
PROTECTION	OVER VOLTAGE	105 ~ 135% rated output voltage			
	OVER VOLIAGE	Protection type: Shut down o/p voltage, re-power on to recover			
	OVED TEMPEDATURE	90°C ±10°C (RTH2) detect on inside ambient temperature			
	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			
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 BS EN/EN62368-1, EAC TP TC 004 approved			
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC			
EMC (Note. 6)	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH			
	EMC EMISSION	Compliance to BS EN/EN55032 class B, BS EN/EN61000-3-2,3, FCC PART 15 / CISPR22 class B, CAN ICES-3(B)-NMB-(B), EAC TP TC 020			
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020			
OTHERS	MTBF	2197.9K hrs min. Telcordia SR-332 (Bellcore) ; 274.1K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	175*72*35mm (L*W*H)			
	PACKING	0.7Kg; 20pcs/15Kg/0.95CUFT(GC160Axx-R7B) 0.77Kg; 20pcs/16.4Kg/1.15CUFT(GC160Axx-AD1)			
CONNECTOR	PLUG	See page 2 ; Other type available by custo	mer requested		
	CABLE	See page 2; Other type available by customer requested			
NOTE	All parameters NOT specially me This is MeanWell's suggested ra Derating may be needed under Constant current operation regio The power supply is considered	tion for charger specification may be required for different battery specification. Please contact battery vendor and MEAN WELL for details. neters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. lean/Well's suggested range, please consult your battery manufacturer for their suggestions about maximum charging current limitation. may be needed under low input voltage. Please check the derating curve for more details. t current operation region is within 50~100% rated output voltage. er 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. able on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)			

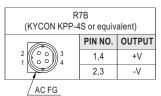
- (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





■ Plug Assignment

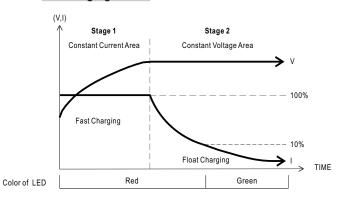
DC output connector



-V connected to AC FG



■ 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)



