



■ 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>0.97
- No load power consumption<0.5W
- * 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 / PSE / TUV / EAC / CB / FCC / CE / UKCA
- 2 years warranty











ORDER NO.	OUTPUT CONNECTOR	SAFETY		
GC120Axx-R7B (standard model)	4pin power din	TUV / CB / FCC / CE / UKCA / EAC		
GC120Axx-AD1 (standard model)	Anderson connector	UL/TUV/CB/FCC/CE/UKCA/EAC		
GC120Axx-□ xx=12,24,48; □=R7B,AD1				

SPECIFICATION

ORDER NO.		GC120A12-	GC120A24-	GC120A48-	
OUTPUT	SAFETY MODEL NO.	GC120A12	GC120A24	GC120A48	
	DC VOLTAGE (Typ.)	13.6V	27.2V	54.4V	
	RECOMMENDED BATTERY CAPACITY Note.3	40 ~ 100Ah	20 ~ 65Ah	10 ~ 35Ah	
	CONTINUOS OUTPUT CURRENT (Typ.)	7.5A	4.42A	2.21A	
	RATED POWER	102W	120.2W	120.2W	
	LED INDICATOR	Charging(CC) : RED Floating charging(CV) : GREEN			
	VOLTAGE RANGE Note.4	85 ~ 264VAC 120 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
INPUT	POWER FACTOR (Typ.)	PF>0.97 / 230VAC PF>0.99 / 115VAC at full load			
	EFFICIENCY (Typ.)	86.5%	90%	91%	
	AC CURRENT	1.4A / 115VAC 0.7A / 230VAC			
	INRUSH CURRENT (max.)	70A / 230VAC			
	LEAKAGE CURRENT(max.)	0.75mA / 240VAC			
0)	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			
PROTECTION	OVER VOLTAGE	14 ~ 16.5V	29 ~ 33V	59 ~ 69V	
	OVER VOLIAGE	Protection type: Shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE	$100^\circ\!$			
	OVER TEIMI ERATORE	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 GC120AXX-AD1 Only), TUV BS EN/EN62368-1, PSE J60950-1, 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, FCC PART 15 / CISPR22 class B, CAN ICES-3(B)/NMB-3(B), BS EN/EN61000-3-2,3, EAC TP TC 020			
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A, EAC TP TC 020			
OTHERS	MTBF	400.7Khrs min. MIL-HDBK-217F(25°C)			
	DIMENSION	167*67*35mm (L*W*H)			
	PACKING	0.62Kg; 20pcs/13.4Kg/0.95CUFT			
CONNECTOR	PLUG	See page 2; Other type available by custo	· · · · · · · · · · · · · · · · · · ·		
	1 Modification for charger spe	See page 2; Other type available by custo	•	ander and MEAN WELL for details	
NOTE	All parameters NOT special This is MeanWell's suggest Derating may be needed ur Constant current operation	ecification may be required for different battery specification. Please contact battery vendor and MEAN WELL for details. ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ted range, please consult your battery manufacturer for their suggestions about maximum charging current limitation. Inder low input voltage. Please check the derating curve for more details. region is within 50~100% rated output voltage. dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets			

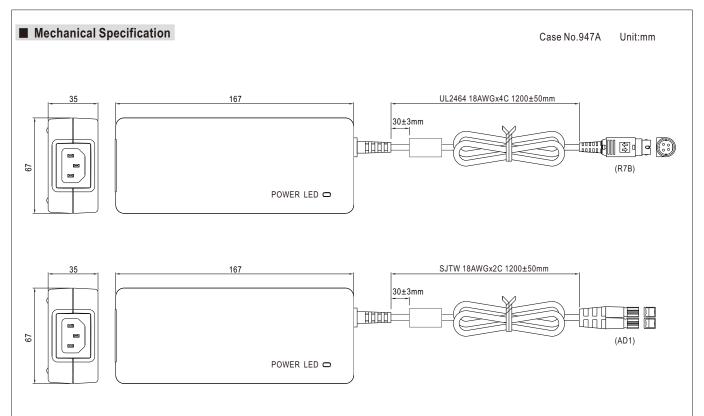
- 6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

 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



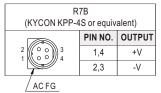
120W Single Output Battery Charger

GC120 series



■ Plug Assignment

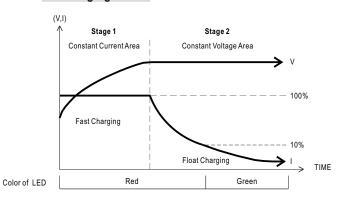
DC output connector



-V connected to AC FG



■ Charging Curve



Model	Suggested Battery capacity	
GC120A12	40-100Ah	
GC120A24	20-65Ah	
GC120A48	10-35Ah	

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



120W Single Output Battery Charger

GC120 series

