User's Manual





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>0.97
- 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













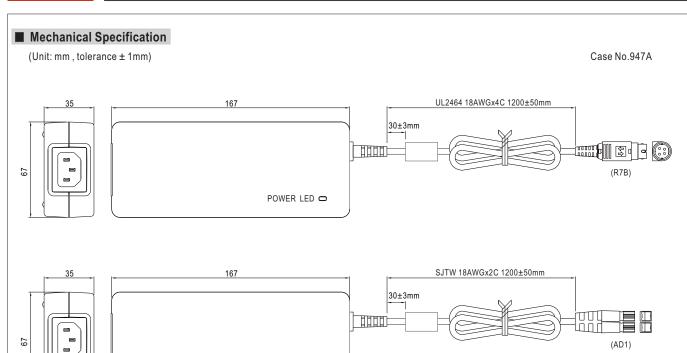
ORDER NO.	OUTPUT CONNECTOR	SAFETY		
GC120Axx-R7B (standard model)	4pin power din	TUV / CB / FCC / CE / UKCA / EAC		
GC120Axx-AD1 (standard model)	Anderson connector	UL/TUV/CB/FCC/CE/UKCA/EAC		
GC120Axx-□ xx=12,24,48; □=R7B,AD1				

■ GTIN CODE

ORDER NO		GC120A12-	GC120A24-	GC120A48-	
ОИТРИТ	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			
	POWER FACTOR (Typ.)	PF>0.97 / 230VAC PF>0.99 / 115VAC at full load			
INPUT	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			
	OVERLOAD No. 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			
	WORKING TEMP.	-30 ~ +70 $^{\circ}$ 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 GC120AXX-AD1 Only), TUV BS EN/EN62368-1, PSE J60950-1, EAC TP TC 004 approved I/P-O/P: 3KVAC			
SAFETY &	WITHSTAND VOLTAGE				
EMC	ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH				
EMC IMMU	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, BS EN/EN55035, light industry level, EAC TP TC 020			
	MTBF	2707.9K hrs min. Telcordia SR-332 (Bellcore) ; 400.5K hrs min. MIL-HDBK-217F (25°C)			
OTHERS	DIMENSION	167*67*35mm (L*W*H)			
	PACKING	0.62Kg; 20pcs/13.4Kg/0.95CUFT			
CONNECTOR	PLUG	See page 2; Other type available by customer requested			
	1 Modification for charger and	See page 2; Other type available by customer requested			
NOTE	All parameters NOT special This is MeanWell's suggest Derating may be needed ur Constant current operation The power supply is consid EMC directives (as available)	ecification may be required for different battery specification. Please contact battery vendor and MEAN WELL for details. Illy 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 le on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 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

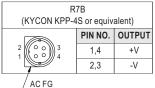




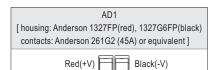
POWER LED O

■ Plug Assignment

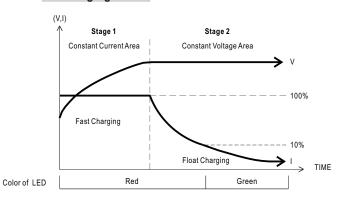
DC output connector



-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)



