



■ 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>0.90
- 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
- 2 years warranty







ORDER NO.	OUTPUT CONNECTOR	SAFETY	
GC220Axx-R7B (standard model)	4pin power din	TUV / CB / FCC / CE / EAC	
GC220Axx-AD1 (optional model)	Anderson connector	UL/TUV/CB/FCC/CE/EAC	
GC220Axx-□ xx=12,24,48; □=R7B,AD1			

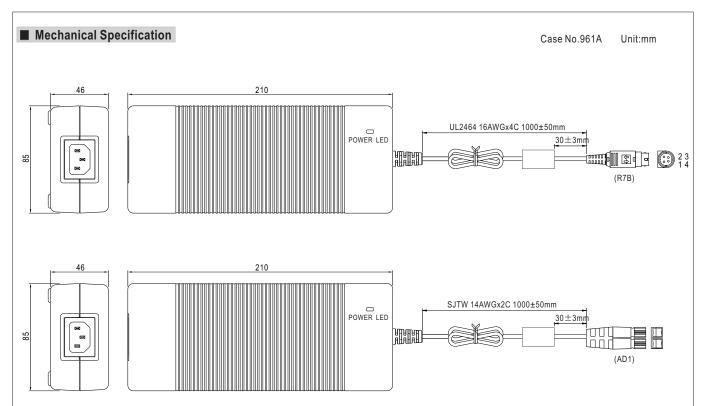
SPECIFICATION

ORDER NO.		GC220A12-	GC220A24-	GC220A48-		
	SAFETY MODEL NO.	GC220A12	GC220A24	GC220A48		
ОИТРИТ	DC VOLTAGE (Typ.)	13.6V	27.2V	54.4V		
	RECOMMENDED BATTERY CAPACITY Note.3	80 ~ 200Ah	40 ~ 125Ah	20 ~ 65Ah		
	CONTINUOS OUTPUT CURRENT (Typ.)	13.5A	8A	4A		
	RATED POWER	183.6W	217.6W	217.6W		
	LED INDICATOR	Charging(CC) : RED Floating charging(CV) : GREEN				
	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF>0.90 / 230VAC PF>0.98 / 115VAC at full load				
NPUT	EFFICIENCY (Typ.)	89%	92.5%	93%		
	AC CURRENT	4A / 115VAC 2A / 230VAC				
	INRUSH CURRENT (max.)	120A / 230VAC				
	LEAKAGE CURRENT(max.)	1.5mA / 240VAC				
		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				
ROTECTION	OVER VOLTAGE	105 ~ 135% rated output voltage				
		Protection type: Shut down o/p voltage, re-power on to recover				
	OVED TEMPERATURE	$95^{\circ}\text{C} \pm 10^{\circ}\text{C}$ (TSW1) detect on heatsink of power transistor				
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down				
	WORKING TEMP.	-30 ~ +60 °C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20% ~ 90% RH non-condensing				
NVIRONMENT	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 GC220Axx-AD1 only), TUV EN60950-1, 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)	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	190Khrs min. MIL-HDBK-217F(25°C)				
OTHERS	DIMENSION	210*85*46mm (L*W*H)				
	PACKING	1.1Kg; 12pcs/14.2Kg/0.73CUFT(GC220Axx-R7B) 1.2Kg; 12pcs/15.4Kg/1CUFT(GC220Axx-AD1)				
CONNECTOR	PLUG	See page 2; Other type available by customer requested				
CONNECTOR	CABLE	See page 2; Other type available by customer requested				
NOTE	 All parameters NOT speciall This is MeanWell's suggeste Derating may be needed un 	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. Ited 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. Index of the control o				

- 6. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that whole system complies with the EMC directives.

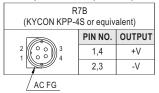
 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).





■ Plug Assignment

DC output connector (standard)

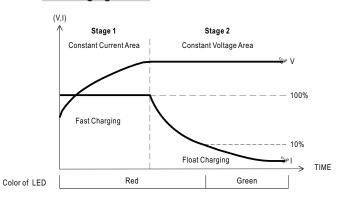


-V connected to AC FG

DC output connector (optional)



■ Charging Curve



Model	Suggested Battery capacity	
GC220A12	80-200Ah	
GC220A24	40-125Ah	
GC220A48	20-65Ah	

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



