

# GC220 Series

220W Single Output Battery Charger



Case No: 8911BR  
210 x 85 x 46 mm

## Features

- Charger for lead-acid batteries (flooded, gel and AGM) and Li-ion batteries (lithium iron and lithium manganese)
- 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
- Cooling by free air convection
- Class I power (with earth pin)
- Protections: Short circuit/Overload/Over voltage/ Over Temperature
- Fully enclosed plastic case
- 2 colour LED indicator for charging status
- 2 years warranty



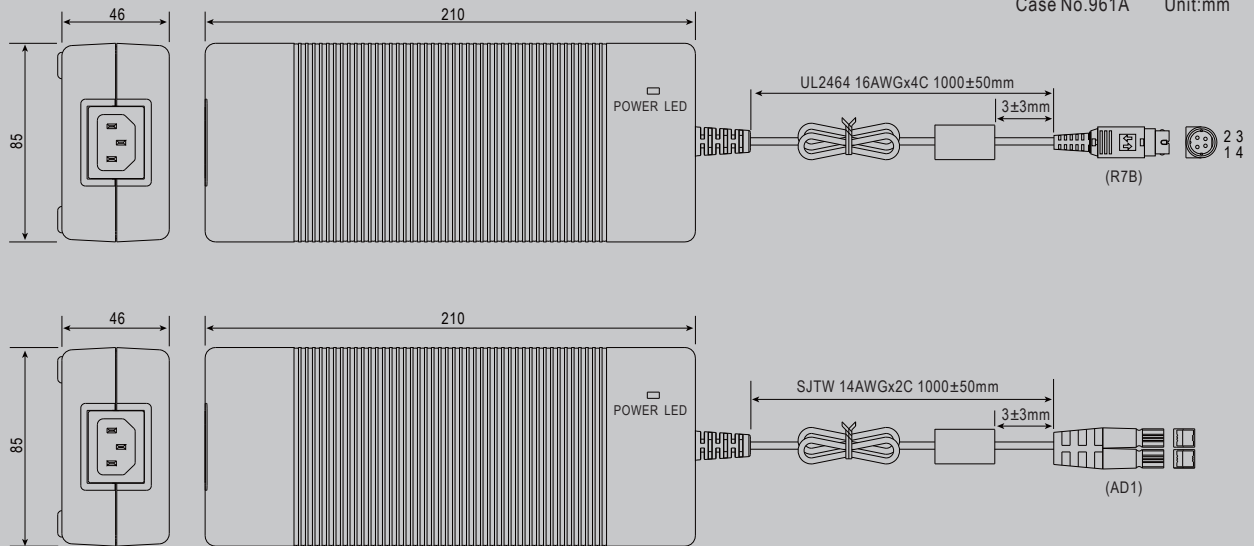
(For GC220Axx-AD1 only)

## Specification

		GC220Axx-R7B (standard model) 4pin power din / GC220Axx-AD1 (optional model) Anderson connector GC220Axx- □ xx=12, 24, 48; □=R7B, AD1		
INPUT	<b>Voltage</b>	90 ~ 264VAC	127 ~ 370VDC	
	<b>Frequency</b>	47 ~ 63Hz		
	<b>Power Factor</b>	PF>0.90/230VAC	PF>0.98/115VAC at full load	
	<b>Efficiency</b>	89%	92.5%	93%
	<b>AC Current</b>	4A/115VAC	2A/230VAC	
	<b>Inrush Current</b>	120A / 230VAC		
	<b>Leakage Current</b>	1.5mA/240VAC		
OUTPUT	<b>MODEL No.</b>	<b>GC220A12-</b> □	<b>GC220A24-</b> □	<b>GC220A48-</b> □
	<b>DC Voltage</b>	13.6V	27.2V	54.4V
	<b>Recommended Battery Capacity</b>	80~200Ah	40~125Ah	20~65Ah
	<b>Continuous Output Current</b>	13.5A	8A	4A
	<b>Rated Power</b>	183.6W	217.6W	217.6W
	<b>LED Indicator</b>	Charging (CC): Red Floating charging (CV): Green		
	<b>Over Load</b>	90~110% rated output power Protection Type: Constant Current Limiting recovers automatically after fault condition is removed		
PROTECTION	<b>Short Circuit</b>	Protection Type: Hiccup mode, recovers automatically after fault condition is removed		
	<b>Over Voltage</b>	105 ~ 135% rated output voltage Protection Type: Shut down o/p voltage, re-power on to recover		
	<b>Over Temperature</b>	95°C± 10°C (TSW1) detect on heatsink of power transistor Protection Type: Shut down o/p voltage, recovers automatically after temperature goes down		
	ENVIRONMENT	<b>Working Temp.</b>	-30 ~ +60°C (Refer to derating curve)	
<b>Working Humidity.</b>		-20 ~ +90% RH non-condensing		
<b>Storage Temp Humidity.</b>		-40 ~ +85°C, 10 ~ 95% RH		
<b>Temp. Coefficient</b>		±0.03% / °C (0 ~ 50°C)		
<b>Vibration</b>		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes		
SAFETY & EMC	<b>Safety Standards</b>	UL1012 (for GC220Axx-AD1 only), TUV EN60950-1 approved		
	<b>Withstand Voltage</b>	I/P-O/P: 3KVAC		
	<b>Isolation Resistance</b>	I/P-O-P:100M Ohms / 500VDC / 25°C / 70% RH		
	<b>EMC Emission</b>	Compliance to EN55032 class B, FCC PART 15 class B / CISPR32 class B, EN61000-3-2,3		
	<b>EMC Immunity</b>	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A		
CONNECTOR	<b>Plug</b>	See page 2; Other type available by customer's request.		
	<b>Cable</b>	See page 2; Other type available by customer's request.		
OTHERS	<b>MTBF</b>	190Khrs min. MIL-HDBK-217F (25°C)		
	<b>Packaging</b>	1.1Kg, 12pcs / 14.25Kg / 0.73 CUFT (GC220Axx-R7B) 1.2Kg, 12pcs/15.4Kg/1CUFT (GC220Axx-AD1)		

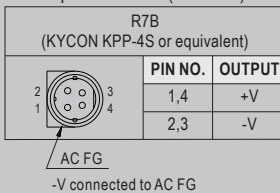
1. Modification for charger specification may be required for different battery specification. Please contact battery vendor for details.
2. All parameters not specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
3. This is Meanwell's suggested range, please consult your battery manufacturer for their suggestions about maximum charging current limitation.
4. Derating may be needed under low input voltage. Please check the derating curve for more details.
5. Constant current operation region is within 50~100% rated output voltage.
6. The power supply is considered as a component that will be operated in combination with final equipment. The final equipment must be re-confirmed that it still meets EMC directives

## Mechanical Specification

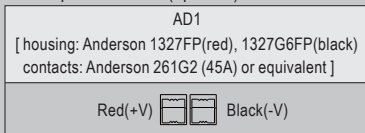


## Plug Assignment

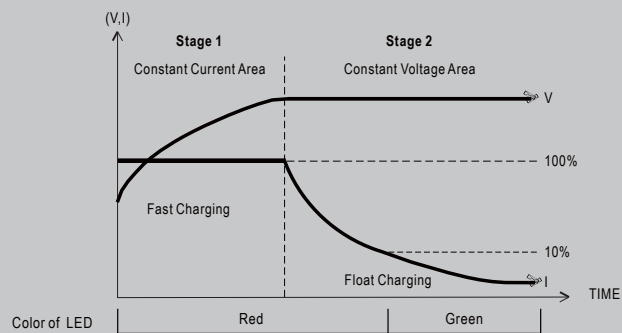
DC output connector (standard)



DC output connector (optional)



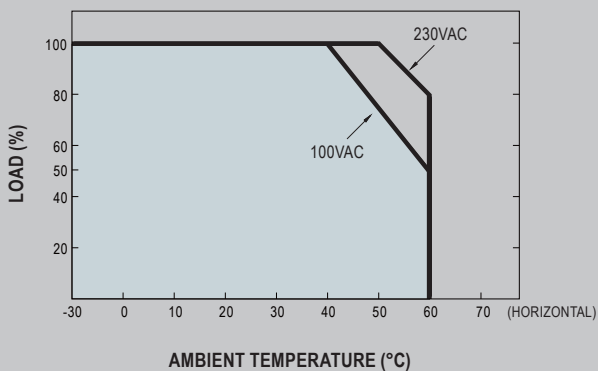
## Charging Curve



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)

## Derating Curve



## Statistic Characteristics

