

# GA200(CM)-XX Lead-Acid(Pb-Acid) Battery Charger

## Features Overview

1. The charger integrates power factor correction (PFC), it can avoid the impact of high current and can't produce pollution on the grid
2. The input AC voltage is 90V~264V 50~60HZ for A200-XX, and is 90V~132V or 200V~260V 50~60HZ for A200CM-XX
3. Efficiency > 87% , Power Factor > 0.97 [for GA200] or >0.7[for GA200CM]
4. With MCU controller, CC+CV(H)+CV(L) 3-stages charge method
5. Designed for 12V~48V Pb-Acid battery



## Protection

1. The charger's internal relay makes the output voltage is less than 5.5V with no-load, when the output is connected to a battery, the output voltage of charger is normal
2. Short circuit protection: when the output of charger is shorted , the charger will close output automatically without any damage
3. Reverse polarity protection: when the output is connected to a battery reversely , the charger will close output automatically without any damage
4. Overheating protection: the internal temperature exceeds 80 °C, the charger will close output automatically

## Technical Specifications

AC Input			
Nominal Input Voltage	120 VAC / 230 VAC RMS		
Input Frequency	45 - 65 Hz		
Input Current	2A rms @ 120 VAC or 1 A rms @ 230 VAC		
Power Factor	> 0.97 [for A200] or >0.7[for A200CM]		
Charger type	Pb-Acid battery charger		
DC Output	GA200(CM)-12	GA200(CM)-24	GA200(CM)-48
Output Voltage (no battery)	<4V	<4V	<5V
Floating Charging Voltage	13.8V +-1%	27.6V +-1%	55V +-1%
Bulk Charging Voltage Limit	14.6V +-1%	29.2V +-1%	59V +-1%
Charging Current	12A +-5%	6A +-5%	3.5A +-5%
LED Indicator	Power LED    Red:    power on Charging LED Off:    no battery Red:    charging Green: finished Red flashing: errors		
Efficiency	>87%		
Environment			
Operating Temperature	-10~40°C		
Operating Humidity	<90%		
Storage Temperature	-40~70°C		
Storage Humidity	<95% (non-condensing)		
Cooling	Fan cooling		
Safety			
Max Temperature rising	<20°C (on casing)		
Safety Standard	Meet EN60335/EN61000		
Hi-Pot Insulation	i/p to o/p: 1500AC (1 min.) (For final unit, cut-off current =10mA)		
Mechanical			
Weight	800g		
Dimensions (L×W×H)	213×94×54mm		
Input/Output Cord	Defined by user		