

# L200(CM)-XX Li-Ion/Polymer 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 L200-XX, and is 90V~132V or 200V~260V 50~60HZ for L200CM-XX
3. Efficiency > 87% , Power Factor > 0.97 [for L200] or >0.7[for L200CM]
4. With MCU controller, CC+CV, cut-off when finished charging
5. Designed for 24V~48V power Li-ion/Li-Fe battery pack



## 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 / 240 VAC RMS		
Input Frequency	50 - 60 Hz		
Input Current	2A rms @ 120 VAC or 1 A rms @ 230 VAC		
Power Factor	Power Factor > 0.97 [for L200] or >0.7[for L200CM]		
Charger type	Li-ion/Polymer battery-pack charger		
DC Output	L200(CM)-24	L200(CM)-36	L200(CM)-48
Output Voltage (no battery)	<4V	<4V	<5V
Charging end condition	<0.3A	<0.3A	<0.3A
Bulk Charging Voltage Limit	29.4V +-1%	42V +-1%	56V +-1%
Charging Current	6A +-5%	4.5A +-5%	3.5A +-5%
LED Indicator	Power LED    Red:    power on Charging LED Off:    no battery Red:    charging Green: finished Red flashing: errors		
Inner Timer	8 hours (default value)		
Efficiency	>85%		
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		