



广东奥博特实业有限公司

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500W 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 charger is designed with a wide input voltage range from 90-265 VAC making it an ideal choice for any worldwide application
3. Efficiency > 87% , Power Factor > 0.97
4. With MCU controller, CC+CV, cut-off when finished charging
5. Designed for 24V~48V power Li-ion/Polymer 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 | | | | | |
|-----------------------------|---|---------|---------|---------|---------|
| Input Voltage Range | 90~265VAC | | | | |
| Nominal Input Voltage | 120 VAC / 230 VAC RMS | | | | |
| Input Frequency | 45 - 65 Hz | | | | |
| Input Current | 5Arms @ 120 VAC or 3A rms @ 230 VAC | | | | |
| Power Factor | 0.99 @ 120 VAC / 0.98 @ 230 VAC | | | | |
| Charger type | Li-ion/Polymer battery-pack charger | | | | |
| DC Output | L500-24 | L500-36 | L500-48 | L500-60 | L500-72 |
| Output Voltage (no battery) | <4V | <4V | <5V | <5V | <5V |
| Charging end condition | <0.6A | <0.4A | <0.4A | <0.3A | <0.3A |
| Bulk Charging Voltage Limit | 29V | 42V | 56V | 70V | 84V |
| Charging Current | 14A | 11A | 8A | 6.5A | 5.5A |
| 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 | 1.2Kg | | | | |
| Dimensions (L×W×H) | 223×126×71mm | | | | |
| Input/Output Cord | Defined by user | | | | |