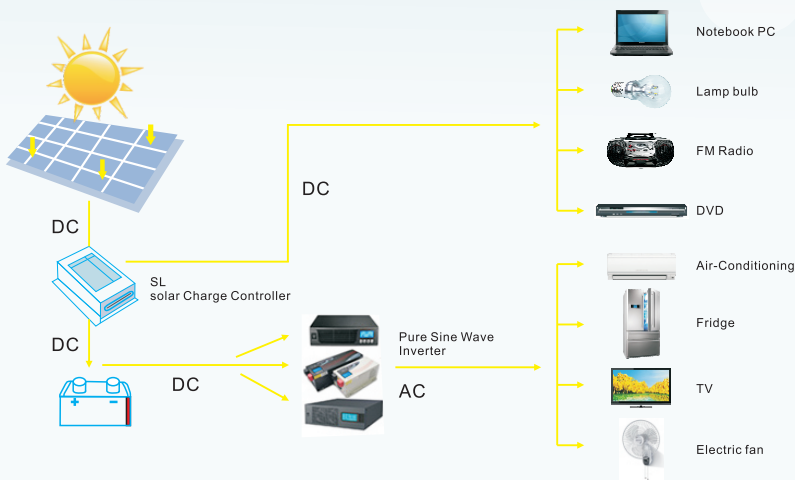


SL Series

SL-XXA MPPT Solar Charge Controller



Optional



Application:

SL-XXA solar charge controller is mainly used for solar power station, home solar power system, solar street light control system, mobile solar power system, DC wind solar generating systems.

Key Features:

- ※ Adopt advanced MCU microprocessor control technology.
- ※ 12V/24V self detect to choose output voltage.
- ※ Advanced MPPT Technology, High converting efficiency higher than 97% for minimizing energy loss.
- ※ Capable to parallel in output, to expand capacity easily.
- ※ Reversed current protection at night, over voltage and reverse polarity protection.
- ※ Capable of selecting different charging mode for various type of batteries.
- ※ Capable of connecting additional DC load for wider applications.
- ※ Three stage charge control system (bulk, absorption, and float mode) with optional temperature compensation.
- ※ LED indicators display charge status in real time.
- ※ Pulse Width Modulation (PWM) technology combined with a multi-stage charge control algorithm leads to superior charging and enhanced battery performance.
- ※ Selectable external LCD display.

SPECIFICATIONS:



| Model | SL-40A | SL-60A | SL-40A-48 |
|--|--|--------------|------------------|
| Rated Voltage | 12/24Vdc Auto-detection | | 48Vdc |
| Rated charge current(include load current) | 40Amp | 60Amp | 40Amp |
| Load current | 15Amp | | 10Amp |
| Input voltage range | 15-55Vdc | | 58-110Vdc |
| Max. PV open circuit array voltage | 55Vdc | | 110Vdc |
| Overload protection (DC load) | 2.0 * Inom>5s | | |
| | 1.5 * Inom >20s | | |
| | 1.25 * Inom temperature controlled | | |
| Typical idle consumption | At idle < 10mA | | |
| Bulk charge | 14.6Vdc(default)/29.2Vdc(default) | | 58.4Vdc(default) |
| Floating charge | 13.4Vdc(default)/26.8Vdc(default) | | 53.6Vdc(default) |
| Equalization charge | 14.0Vdc(default)/28.0Vdc(default) | | 56Vdc(default) |
| Over charge disconnection | 14.8Vdc/29.6Vdc | | 59.2Vdc |
| Over charge recovery | 14Vdc/28Vdc | | 56Vdc |
| Over discharge disconnection | 10.8Vdc(default)/21.6Vdc(default) | | 43.2Vdc(default) |
| Over discharge reconnection | 12.3Vdc/24.6Vdc | | 49.2Vdc |
| Temperature compensation | -13.2mV/°C/-26.4mV/°C | | -52.8mV/°C |
| Lead acid battery settings | Adjustable | | |
| NiCad battery settings | Adjustable | | |
| Load control mode | 1. Low Voltage Reconnect (LVR): Adjustable | | |
| | 2. Low Voltage Disconnect (LVD): Automatic disconnection | | |
| | 3. Reconnection: Includes warning flash before disconnect and reconnection | | |
| Low voltage reconnect | 12.0-14.0Vdc | 24.0-28.0Vdc | 48.0-56.0Vdc |
| Low voltage disconnect | 10.5-12.5Vdc | 21.0-25.0Vdc | 42.0-50.0Vdc |
| Ambient temperature | 0-40 °C (full load) 40-60 °C (de-rating) | | |
| Altitude | Operating 5000 m, Non-Operating 16000 m | | |
| Protection class | IP21 | | |
| Cooling | natural cooling | | |
| Terminal size (fine/single wire) | #8 AWG | | |
| Dimension(L*W*H) | 205*141*66mm | 205*141*82mm | 205*141*66mm |
| Net Weight(kgs) | 1.6 | 2.0 | 1.8 |

* Product specifications are subject to change without further notice.