

# SL Series

## SL MPPT Solar Charge Controller

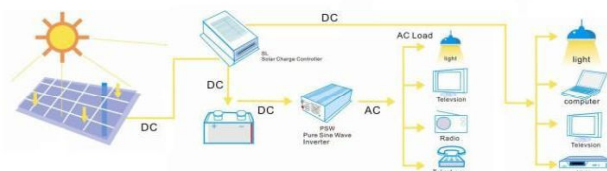


### Application:

SL-40A 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



## SPECIFICATIONS:



Model	SL-40A		SL-60A
Rated Voltage	12/24Vdc auto-detection		
Rated charge current(include load current)	40Amp		60Amp
Load current	15Amp		
Input voltage range	15-55Vdc		
Max. PV open circuit array voltage	55Vdc		
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)	
Floating charge	13.4Vdc (default)	26.8Vdc (default)	
Equalization charge	14.0Vdc (default)	28.0Vdc (default)	
Over charge disconnection	14.8Vdc	29.6Vdc	
Over charge recovery	14Vdc	28Vdc	
Over discharge disconnection	10.8Vdc (default)	21.6Vdc (default)	
Over discharge reconnection	12.3Vdc	24.6Vdc	
Temperature compensation	-13.2mV/°C	-26.4mV/°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	
Low voltage disconnect	10.5-12.5Vdc	21.0-25.0Vdc	
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)	192*140*66mm		

\* Product specifications are subject to change without further notice.