

## Product Snapshot

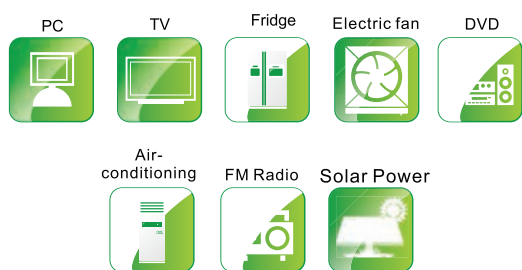
- Nominal Voltage: 12V/ 24V/ 48V
- Charge Voltage: 40A / 60A

## Applications

Solar charge controller is mainly used for solar power situation, home solar power system, solar street light control system, mobile solar power system.

## Key Features

- Adopt advanced MCU microprocessor control technology.
- 12V/24V/48V 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 types 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, Optional LCD display.



Model	HSC-120A	HSC-140A	HSC-160A
Battery voltage setting	12V	24VDC	48VDC
Rated charge current	20ADC	40A	60A
Load current		15A	
Max. PV open circuit array voltage	40Vdc (150Vdc Option)	55Vdc (150Vdc Option)	110Vdc (150Vdc Optional)
Typical idle consumption		< 10mA	
Power off idle consumption		< 1mA	
Overload protection		30 > 5s 22.5A > 20s 18.8A ( de-rating )	
Bulk charge	14.6V (default)	29.2V (default)	58.4Vdc (default)
Floating charge	13.4Vdc(default)	26.8Vdc(default)	53.6Vdc (default)
Over charge disconnection	14.8V	29.6V	63.2V
Over charge recovery	13.6V	27.2V	56.0V
Over charge disconnection	10.8V	21.6V	43.2V
Over charge reconnection	12.3V	24.6V	49.2V
Low voltage reconnect	13 ± 1V	26 ± 2V	49.2 ± 0.3V
Low voltage disconnect	11.5 ± 1V	23.0 ± 2V	43.2 ± 0.3V
Ambient temperature		0- 40°C (full-rating) / 40-60°C (de-rating)	
Altitude		< 5000m	
Cooling		Nature Cooling	
Protection class		IP21	
Terminal size (fine/single wire)	AWG #8	AWG #8	AWG #6
Dimension (D*W*H*)	192*140*66 mm	192*140*66 mm	124*220*311 mm
Net weight	1.4kg	1.4kg	5.4kg