



SUNWAY P☀ER

Green and Creative
HEFEI SUNWAY POWER

HOME TYPE SOLAR CHARGE CONTROLLER



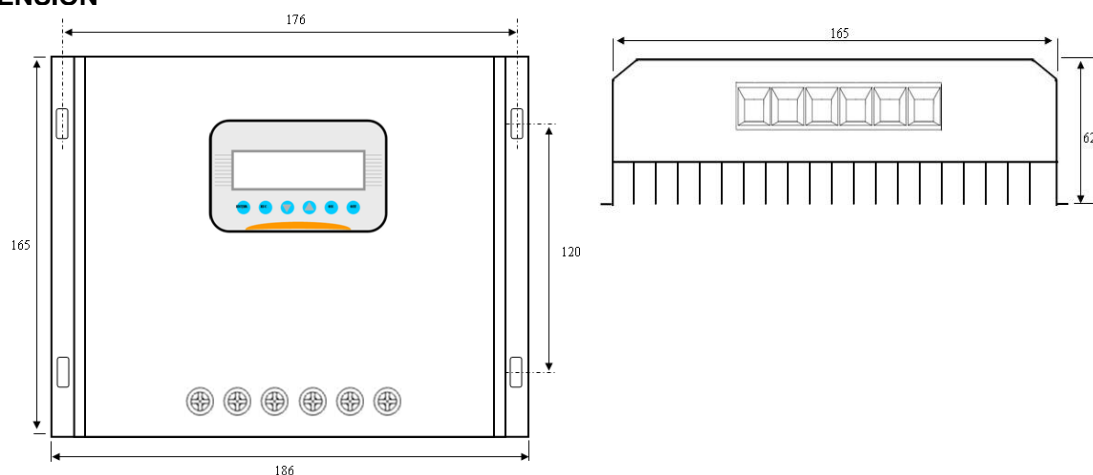
As a SME manufacture of solar controller, Sunway power using the advanced technology to rise the efficiency of solar charging to the optimum level. The controller features a smart tracking algorithm inside that maximizes the energy from the solar PV module(s) and charge the battery. At the same time, the low voltage disconnect function (LVD) will prevent the battery from over discharging. Charging process has been optimized for long battery life and improved system performance. Meanwhile, the comprehensive self-diagnostics and electronic protection functions can prevent damage from installation or system faults.

FEATURES

- 12V/24V/36V/48V auto detect
- Be suitable for Sealed, Gel and Li-Fe battery various kinds of batteries
- With multi-functions of protection.
- Charging circuit and MCU Control circuit isolate completely
- Adopt wide range of new switching power chip, it also can optimize to maximize the use efficiency and reduce battery consumption
- The controller is equipped with an internal resettable fuse and varistor allows the controller to better cope with overvoltage caused by a variety of external environment and the flow through the emergency situations
- User can to modify the system parameters setting by keys
- Standard RS485 data communication function(optional)



DIMENSION



TECH-DATA

System Capability				
Model type	SSCP-12243648-XXA-HA			
Solar panels Vmp range [V] (suggest value)	15--18	30--36	45--54	60--72
Solar panels Voc Max. [V] (suggest value)	24V	48V	72V	100V
Input vol. of solar panels Max.	150V			
Rated charging current [A]	<input type="checkbox"/> 20	<input type="checkbox"/> 30	<input type="checkbox"/> 40	<input type="checkbox"/> 50 <input type="checkbox"/> 60
Rated battery bank voltage [V]	12V/24V/36V/48V Auto detect			
Performance				
Consumption at standby [mA]	<30			
Consumption at night [mA]	<15			
Efficiency of charging	>95%			
Peak of charging Efficiency	99%			
Topology	Transformerless			
Operating Temperature Range	-25°C to +60°C (45°C to 60°C with derating)			
Cooling Method	Natural Convection			
Ambient Humidity	0% ~98% Non-condensing			
Altitude [m]	Up to 2000 (without power derating)			
General Data				
Terminal	Universal series			
LCD Display	LCD (16X2characters, green backlight)			
Display Language	English			
Data communication (option)	RS485			
Ingress Protection Class	IP20 (indoor)			
Mounting	Wall mounting type			
Dimensions (W*D*H) [mm]	186 *165 *62			
Net weight [kg]	1.5			
Standard Warranty [year]	3 (standard) / 5(optional)			