



SUNWAY P☀ER

Green and Creative
HEFEI SUNWAY POWER



PV SYSTEM

MPPT SOLAR CHARGE CONTROLLER



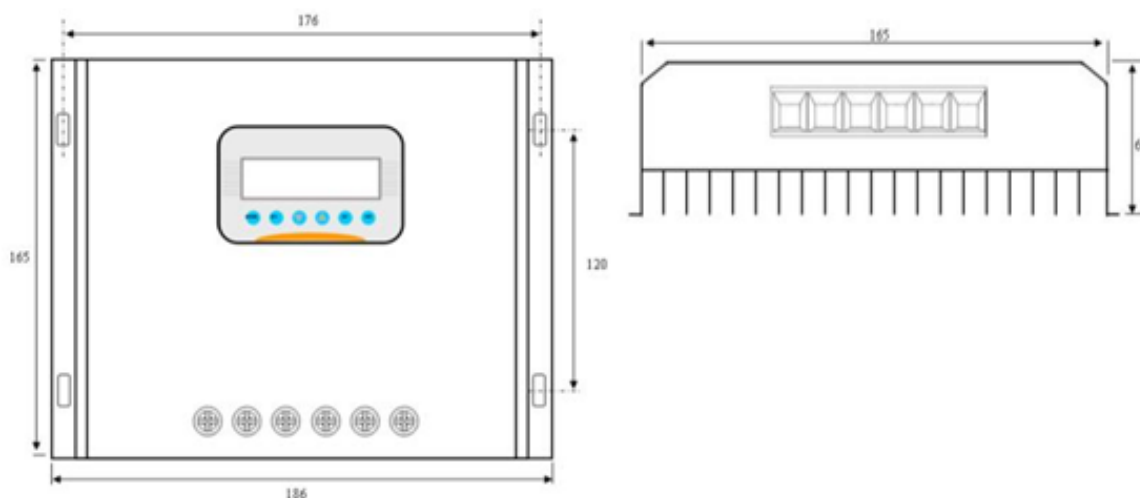
As a SME manufacture of solar controller, Sunway power using the most advanced **MPPT** technology to rise the efficiency of solar charging to the optimum level. This controller is for off-grid PV system to control the charging and discharging of the battery, especially suitable for street light system. 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.

FEATURES

- 12V/24V system auto detection
- USB ports (5V, 1A) Output
- Peak conversion efficiency of 95%, high Tracking efficiency of 97%
- Very fast sweeping of the entire I-V curve, several seconds tracking speed
- Be suitable for Sealed, Gel and Li-Fe battery various kinds of batteries
- Adopting temperature compensation and correcting the charging and discharging parameters automatically, improving the battery lifetime
- With multi-functions of perfect protection.
- The metal housing case cooling



DIMENSION



Technical Data

System Capability

Model type	SSCM- 12V / 24V
Max. PV input power [W]	360 / 720 (12/24V system)
Rated charging current [A]	30 A
Min. input voltage [V]	15 / 28 (12/24V system)
Max. PV input voltage (Voc) [V]	150
Float charge (be adjustable) [V]	14 / 28 (12/24V system)
Boost charge [V]	10 / 20 (12/24V system)
Deep discharge protection (be adjustable) [V] Load disconnect	10.5 / 21 (12/24V system)
Reconnect level (be adjustable) [V] With 10s delay	12 / 24 (12/24V system)
Over-voltage protection (be adjustable) [V] Cut-off charging 10s delay (be adjustable)	15 / 30 (12/24V system)
Reconnect charging [V] With 10minutes delay (be adjustable)	13.5 / 27 (12/24V system)
Consumption at standby [mA]	<30
Conversion Efficiency	Up to 98%
Peak of conversion efficiency	99%
Topology	Inductor
Ambient Temperature	-40°C to +50°C (exceed 50°C with derating)
Ambient Humidity	0%~98% Non-condensing
Cooling Method	Natural Convection
Temperature compensation	-4mV/K(2V cell)

Altitude [m]	<2000 (without power derating)
General Data	
LCD Display	LCD (16X2characters, green backlight)
Display Language	English
Data communication (option)	RS-485/ RS-232
Grounding	Negative
Ingress Protection Class	IP65
Dimensions (W*D*H) [mm]	186 *165 *62
Net weight [kg]	1.5