



SUNWAY P☀ER

Green and Creative
HEFEI SUNWAY POWER

MPPT

APOLLO SERIES

SOLAR CHARGE CONTROLLER

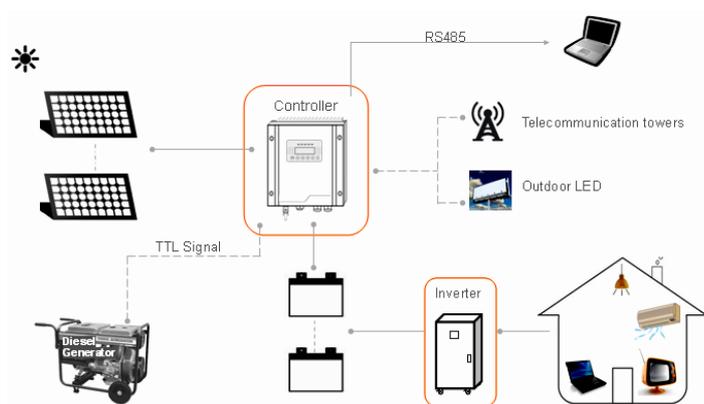


As a SME manufacture of solar controller, Sunway power using the MPPT technology to rise the efficiency of solar charging to the optimum level. The controller features a smart tracking algorithm inside that maximizes the energy from the solar PV module(s) and charge the battery. At the same time, the low voltage disconnect function (LVD) will prevent the battery from over discharging. MPPT Maximum Power Point Tracking technology increases the efficiency of your PV system and charges your battery much faster than a regular controller.

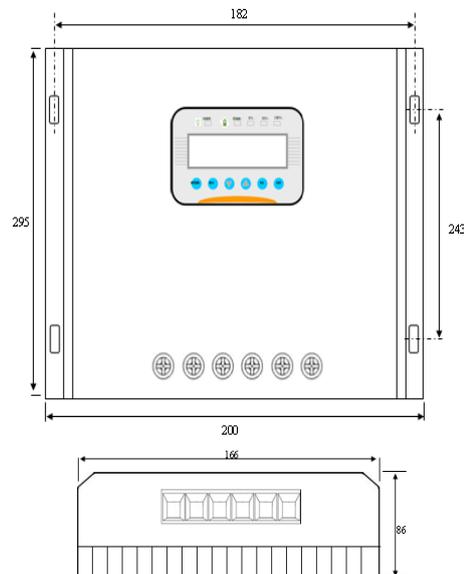
Product



Application Topology



Dimensions

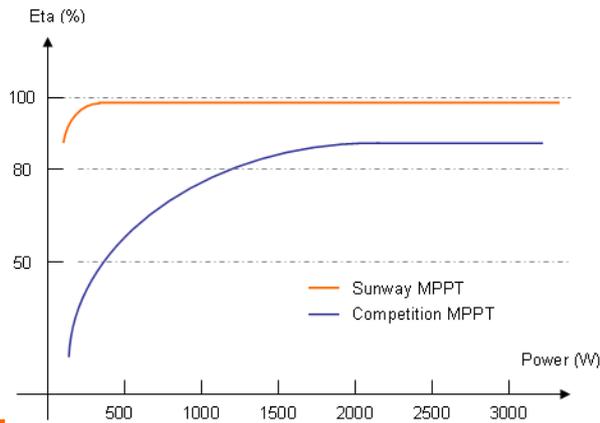


Features

- MPPT technology increases the efficiency of your PV system
- Modular Central Unit (MCU) control
- 12/24/36/48V selectable and auto recognition
- Be suitable for Lead-Acid, GEL, AGM and Li-Fe various kinds of batteries
- Users can to modify the system parameters by setting keys
- Standard RS485 data transfer function
- Darkness / Light detector.
- Utility power backup function (optional)

Protection Functions

- Battery over-charge/discharge protection
- Over-current disconnect function
- Over-loading disconnect function
- Over-temperature protection
- Short circuit disconnect function
- Reverse polarity protection
- anti-reverse charging on night



Technical Data

Data Transfer Accessories



System Capability

Model type	SSCM- 12V / 24V / 48V
Max. PV input power [W]	900 / 1800 / 3000 (12/24/48V system)
Rated charging current [A]	30 A / 40A
Min. input voltage [V]	15 / 28 / 58 (12/24/48V system)
Max. PV input voltage (Voc) [V]	150
Float charge (be adjustable) [V]	14 / 28 / 56 (12/24/48V system)
Boost charge [V]	10 / 20 / 40 (12/24/48V system)
Deep discharge protection (be adjustable) [V]	10.5 / 21 / 42 (12/24/48V system)
Load disconnect	
Reconnect level (be adjustable) [V]	12 / 24 / 48 (12/24/48V system)
With 10s delay	
Over-voltage protection (be adjustable) [V]	15 / 30 / 60 (12/24/48V system)
Cut-off charging 10s delay (be adjustable)	
Reconnect charging [V]	13.5 / 27 / 54 (12/24/48V system)
With 10minutes delay (be adjustable)	
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]	200 *395 *86
Net weight [kg]	3.5