

Green and Creative



# MPPT SMART SERIES

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

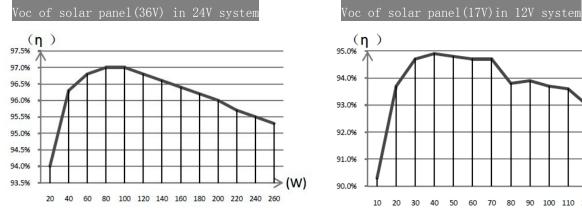


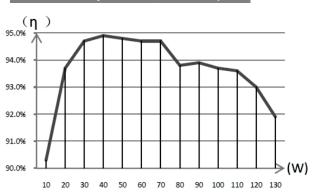


http://www.sunway-power.com please click for more details

#### Protect function

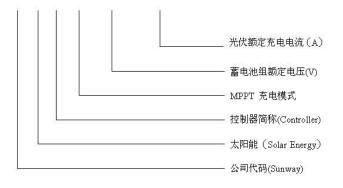
- Battery over charge、 over discharge protection •
- Over flow protection •
- Overload protection •
- Short circuit protection •
- Anti counter function in night .

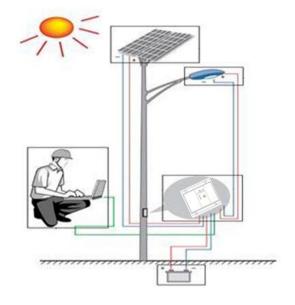




MODEL

# $\underline{S} \underline{S} \underline{C} \underline{M} \underline{XX} \underline{XXA}$





## TECH-DATA

	system	Vmp	Vmp	(suggestion)		Vmp
-	12V 15V		18V			25V
	24V 30V		36V			45V
-	system	Over-discharge	Over-discharge recovery	floating	Over-charge	Over-charge recovery
	12V	10.5 V	12.0 V	14.0 V	13.5 V	15.0 V
	24V	20.0 V	24.0 V	28.0 V	27.0 V	30.0 V

output functions				
1-5A				
5W/ 60W / 100W				
Lighting on/off				
Lighting on/off				
Output constantly				
Output constantly				

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Voc of solar Max. [V]	$\leqslant$ 60			
Battery condition	>9V (12V system) $; >$ 18V (24V system)			
Rated charging current [A]	□5-20			
Self-consumption [mA]	≤20			
Charging efficiency	≥95%			
Temperature-compensation coefficient	-35mV/℃ (25℃ ref.)			
cooling	Casing cooling			
Ambient temp. range	-30℃ to +55℃			
Humidity range	10% - 90% (NC)			
Protection class	IP55			
Altitude work [m]	≤2000			
Net weight [kg]	0.85			
Size [mm]	120*140*50			