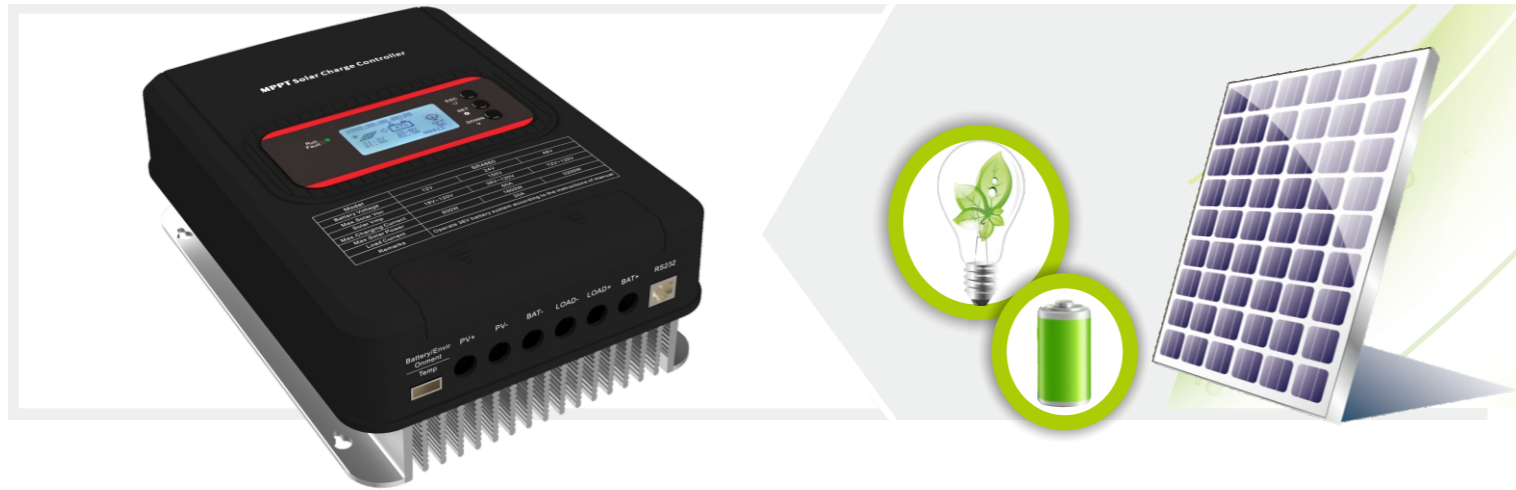
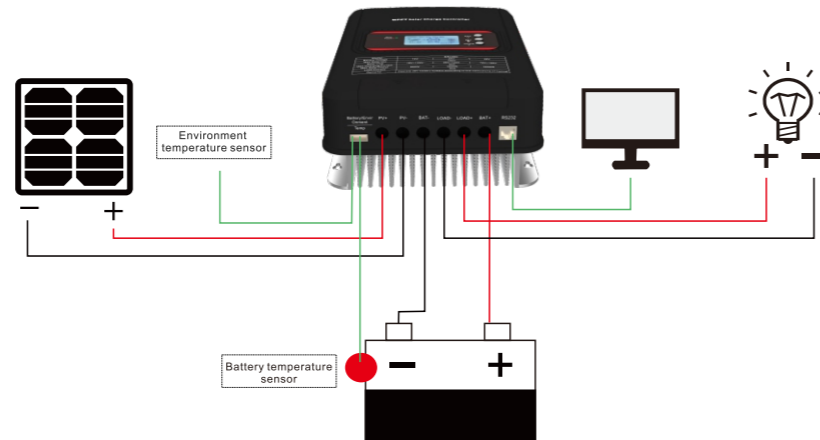


MPPT SOLAR CHARGE CONTROLLER



PROTECTION:

- ◆ PV input overvoltage protection
- ◆ PV input overcurrent protection
- ◆ Output overvoltage protection
- ◆ Output overcurrent protection
- ◆ PV/Battery Anti-reverse protection
- ◆ Over temperature protection
- ◆ Battery low/high voltage protection
- ◆ Load over current protection
- ◆ Load short circuit protection



Features:

- ◆ Advanced dual or multi-peak tracking technology, when the panel is shaded or some of the panel is damaged, the I-V curve will appear multiple peaks, and the controller can still accurately track the maximum power point.
- ◆ The built-in maximum power tracking algorithm can significantly improve the energy efficiency of photovoltaic system, which is about 15% and 20% higher than the traditional PWM charging efficiency.
- ◆ Combining multiple tracking algorithms, it can track accurately in a very short time. To the best working point of I-V curve.
- ◆ MPPT tracking efficiency can reach 99.9%.
- ◆ Maximum conversion efficiency of 98%.
- ◆ LED and LCD Display Operation Status.
- ◆ TVS Lightning protection.
- ◆ Three-stage battery charging(quick, equilibrium, and float).
- ◆ Natural cooling.
- ◆ Temperature compensate for battery.
- ◆ Support for Gel , Sealed , Fluid , lithium batteries and other different types of battery .
- ◆ Supporting charging current limitation.
- ◆ Support capacitive load instant high current start.
- ◆ Support battery voltage automatic recognition.

Model	SR4810	SR4820	SR4830	SR4840	SR4850	SR4860	SR4880	
PV Input (PV)								
Max.PV voltage (VOC)	75V	135V(-20℃) 145V(25℃)						
System voltage	12V/24V	12V/24V/48V auto,36V Set						
MPPT voltage range	Battery voltage+3V-60V		Battery voltage+3V-120V					
Suggest input Voc voltage	22V/40V		22V/40V/60V/80V					
Number of MPPT trackers	1	1	1	1	1	1	1	
Max.PV input power	12V	140W	270W	400W	540W	670W	800W	1100W
	24V	270W	540W	800W	1070W	1340W	1600W	2150W
	36V	400W	800W	1200W	1600W	2000W	2400W	3200W
	48V	540W	1080W	1600W	2140W	2670W	3200W	4300W
Charging Output (DC)								
Max.output current (revisable)	10A	20A	30A	40A	50A	60A	80A	
Rating load current	20A							
Max. capacitive load capacity	10000uF							
Ripple voltage	< 0.5%							
Applicable battery type (ex-factory default lead-acid battery)	Sealed lead-acid battery/Gelled battery/Flooded battery/ lithium, other battery types can be customized							
Efficiency								
Conversion efficiency	≤ 98%							
MPPT efficiency	>99%							
Regular data								
Unloaded loss	< 1.5W	< 1.5W	< 1.5W	< 1.5W	< 1.5W	< 1.5W	< 1.5W	
Operating temperature range	-20 ~ +45 °C							
Elevation height	≤ 3000m							
Working humidity	0%to95%(no condensat)							
Cooling concept	Natural							
IP Rate	IP20							

