

## **Intelligent Charging Controller**

SR-HM-C/SR-HM-E/SR-HM-EU





















#### **Features**

- 1.Identify 12V/24V system voltage automatically.
- 2.LED indicates the working status of battery and load.
- 3. Double USB output charging for various electronic products. Max load current reach up to 1.2A.
- 4.LCD screen could show charge current, discharge current and capacity of the battery.
- 5.Adopting advanced ternary form charging algorithm, equalizing charge for battery once a week to prevent battery from imbalance and vulcanization effectively so that the battery service life will be extended.
- 6.Manual control for the load.
- 7.External temperature sensor can realize high-precision temperature compensation
- 8. Various protections: Over charging protection, over discharging protection, over load, short circuit protection, reverse polarity protection, TVS lightning protection

# Appearance picture is as below



## **Product Detail**



## **Status indications**

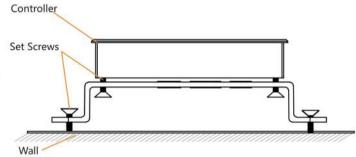
LED indicator	Indications	Status	Functions
<del>* -</del>	battery indication (four pcs LED light)	Green indicator light Long-term Ont (Indicate the battery working normally)	Green LED1 lighten means battery capacity ≤ 25%  Green LED1 and LED2 lighten means battery capacity ≤ 50%  Green LED1 ,LED2,LED3 lighten means battery capacity ≤ 75%  Green LED1,LED2,LED3,LED4 lighten means battery capacity ≤ 100%
		Green indicator long-term on and twinkling	Twinkling means be in charging. long-term on indicate the battery balance energy.
		Only LED4 indicator twinkling, others off	Battery over voltage
		Red LED1 indicator long-term on then twinkling	Battery over-discharged , cut-off the load automatically
	load indication	Long-term On	Load open
		Long-term Off	Load close
		Slow twinkling	Over-load protection
		Fast twinkling	Short circuit protection

## **Installation method**

#### One Way

### **Another Way**





#### **Parameters**

Item	Value	
System voltage	12V/24V Auto	
System current	10A;20A	
No-load loss	< 12mA	
Solar energy input voltage	< 55V	
Overvoltage protection	17.0V; ×2/24V	
Equal charging voltage	14.6V; ×2/24V (25°C) , duration:1h	
Ascending charging voltage	14.4V; ×2/24V (25°C) , duration:2h	
Float charging voltage	13.8V; ×2/24V (25°C)	
Charging recovery voltage	13.2V; ×2/24V (25°C)	
over-discharging recovery voltage	12.5V; ×2/24V	
Under voltage	12.0V; ×2/24V	
Over-discharging voltage	11.1V; ×2/24V	
USB load cut-off voltage	10.6V; ×2/24V	
Total USB load rated current	1.2A	
Temperature compensation	-4.0mv/°C/2V;	
Overload and short circuit protection	1.25 times of rated current: 30s; ≥1.5 times of rated current: short circuit protection	
Working temperature	-20°Cto +50°C	
Protection level	IP30	
Weight	140g(10A);170g(20A)	
Dimensions	120×74×23.6(mm); (L×W×H))	