

SR-DM200 series waterproof all-in-one constant current MPPT charge controller

SR-DM200



Overview

SR-DM200 series waterproof all-in-one constant current MPPT charge controller integrates MPPT solar charging management, LED step-up constant current drive, remote networking communication and other functions, ideal for lead-acid battery/lithium battery / gel battery etc. With high reliability, high efficiency, high precision and ease of installation and maintenance, it has found wide applications in solar street lights, solar garden lights, etc.

Models	Applications
SR-DM200	All-in-one constant current MPPT charge controller

Installation

Installation method and size:

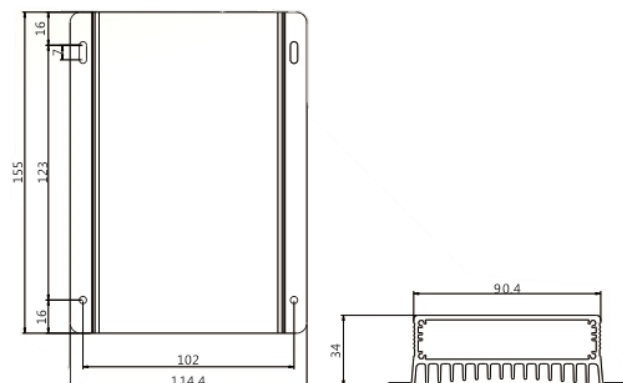
SR-DM200

Controller dimensions are as follows:

Outline dimensions: 155×114.4×34 mm.

Installation size: 102×123mm.

Hole diameter: $\varnothing 3.5$ mm.



Parameters

Items	Values	Adjustable	Default
Models	DM200		
Controller type	All-in-one constant current MPPT charge controller		
System voltage	12V/24V		Lead acid
Static power consumption	$\leq 10\text{mA}/12\text{V}; \leq 5\text{mA}/24\text{V}$		
Sleep power consumption	$\leq 1\text{ mA}$		
Load current	150mA ~ 7000mA	√	330mA
Load voltage	15V ~ 75V		
Max. load power	100W/12V; 200W/24V		
Load conversion efficiency	98% (Typical efficiency: 85%-98%)		
Load current accuracy	$\leq 3\%$		
Intelligent power	High / Medium / Low / Auto / Custom / No	√	Medium
Load working period	9 periods + predawn working period		
Period adjustment range	1min. / 10min.		
Power adjustment range	1% / 10%		
Max. solar input power	260W/12V; 520W/24V		
Max. charge current	20A		
Max. solar input voltage	95V (at minimum temperature); 92V (at standard 25° C)		
Overvoltage	Pb-16.0V; Li- Overcharge voltage +2V; ×2,24V system		16.0V
Charging limit voltage	Pb-15.5V; Li- Overcharge voltage +1V; ×2,24V system		15.5V
Equalizing charge voltage	Pb-14.6V; Li-none; ×2,24V system		14.6V
Equalizing charge interval	30 days		30D
Boost charge voltage (Lead-acid)	8.5V ~ 17.0V; ×2,24V system	√	14.4V
Charge voltage (lithium battery)			
Floating charge voltage (Lead-acid)	8.5V ~ 17.0V; ×2,24V system	√	13.8V
Charge return voltage(lithium battery)			
Over discharge voltage	8.5V ~ 17.0V; ×2,24V system	√	11.0V
Over discharge return voltage	8.5V ~ 17.0V; ×2,24V system	√	12.5V
Temperature compensation coefficient	Pb: -3.0mv/°C/2V; (Lithium battery without temperature compensation)		
Light control voltage	3V ~ 11V; ×2,24V system	√	5V
Light control delay	0s ~ 60s/2min ~ 60min	√	10S
High temperature working	40°C ~ +90°C	√	65°C
Low temperature charging	0°C ~ -35°C	√	-35°C
Operating temperature	-35°C ~ +65°C		
IP rating	IP68		
Protections	Battery polarity reverse protection, solar panel polarity reverse protection, solarpanel overvoltage protection, lithium battery overcharge and over discharge protection, lithium battery BMS overcharge detection protection, over temperature protection, load open circuit and short circuit protection, load overcurrent protection, etc.		
Weight	770g		
Controller dimensions	155×114.4×34 mm.		
Controller installation size	102×123 mm.		
Installation hole diameter	φ3.5		