

Way Elite

MPPT Duo-Battery Charge Controller

User Guide

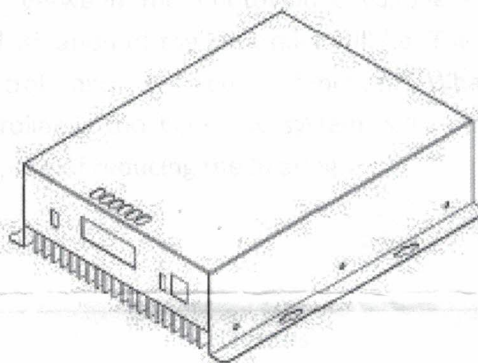
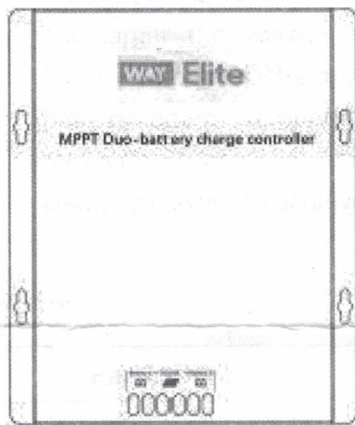
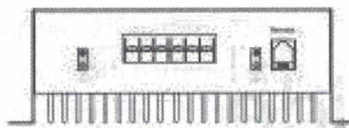


Dimensions

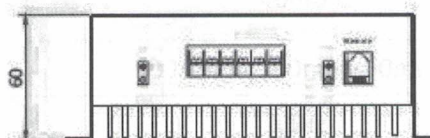
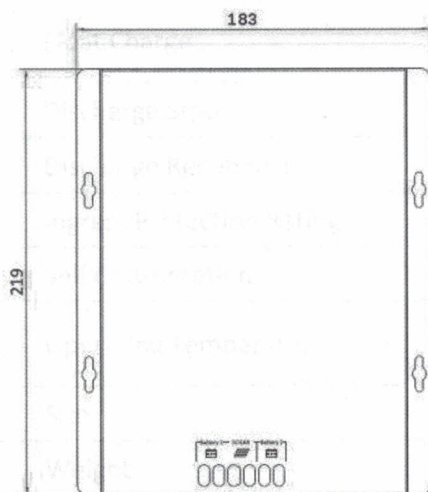
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Specification and operation instruction

1. Drawing:



Visual



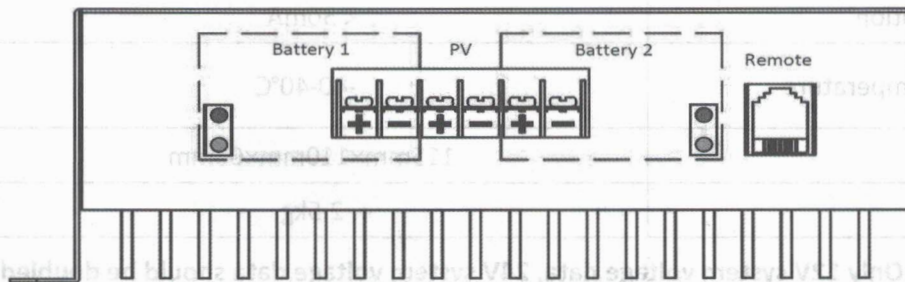
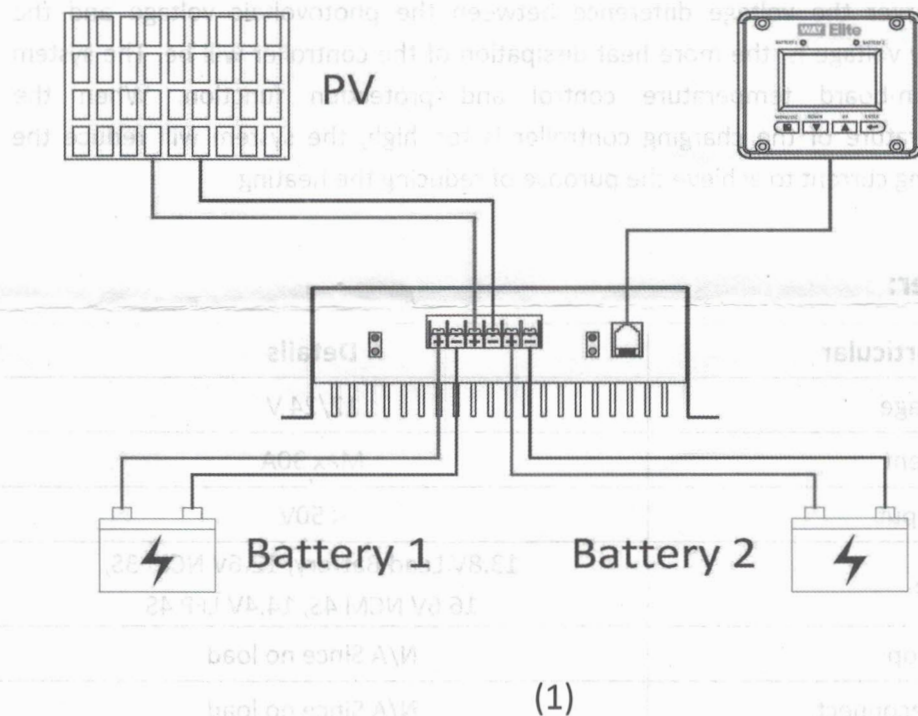
Dimensions

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2. LED indicator:

- **BAT1** indicator is on (green light), means BAT1 (battery 1) connection is correct, LED screen displays operation parameters and setting for BAT1.
- **BAT 1** indicator is flickering, means BAT1 is under charging.
- **BAT2** indicator is on (green light), means BAT2 (battery 2) connection is correct, LED screen displays operation parameters and setting for BAT2.
- **BAT 2** indicator is flickering, means BAT1 is under charging.

3. System connection diagram:



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4. Wiring points:

1. First connect one battery (12/24V) to either BAT1 or BAT2 according to the correct positive and negative polarity. There is no need to distinguish the main and the secondary battery and the system voltage can be detected automatically in line with battery voltage.
2. Connect 2nd battery. The system can operate with one battery at 12V and the other at 24V or both batteries are at 12V or 24V.
3. When the two batteries are connected, make sure that PV voltage meets charging requirement, typically, PV voltage shall be:
 - a) BAT1=12V BAT2=12V $PV \geq 18V$
 - b) BAT1=12V BAT2=24V or BAT1=24V BAT2=12V $PV \geq 30V$
 - c) The larger the voltage difference between the photovoltaic voltage and the battery voltage is, the more heat dissipation of the controller will be. The system has on-board temperature control and protection function. When the temperature of the charging controller is too high, the system will reduce the charging current to achieve the purpose of reducing the heating.

5. Parameter:

Particular	Details
Battery Voltage	12/24 V
Charge Current	Max 30A
Max Solar Input	< 50V
Float Charge	13.8V Lead Battery, 12.6V NCM 3S, 16.6V NCM 4S, 14.4V LFP 4S
Discharge Stop	N/A Since no load
Discharge Reconnect	N/A Since no load
Ingress Protection Rating	IP21
Self Consumption	< 50mA
Operating Temperature	-40-40°C
Size	115mm×110mm×60mm
Weight	2.5kg

* Float Charge: Only 12V system voltage data, 24V system voltage data should be doubled.

LFP Cell voltage = 3.2V (1S) NCM Cell voltage=3.7V(1S)