

# MPPT Solar Charge Controller User Instruction Manual

## E-BIKE VERSION

### Safety instruction

1. Don't make the battery short-circuit, we advise to connect a fuse for short-circuit protection.
2. Keep the battery away from the fire and any flammable gas. Use insulating tools.
3. Keep your children away from the controller and battery.
4. Please follow the safety instruction of battery.

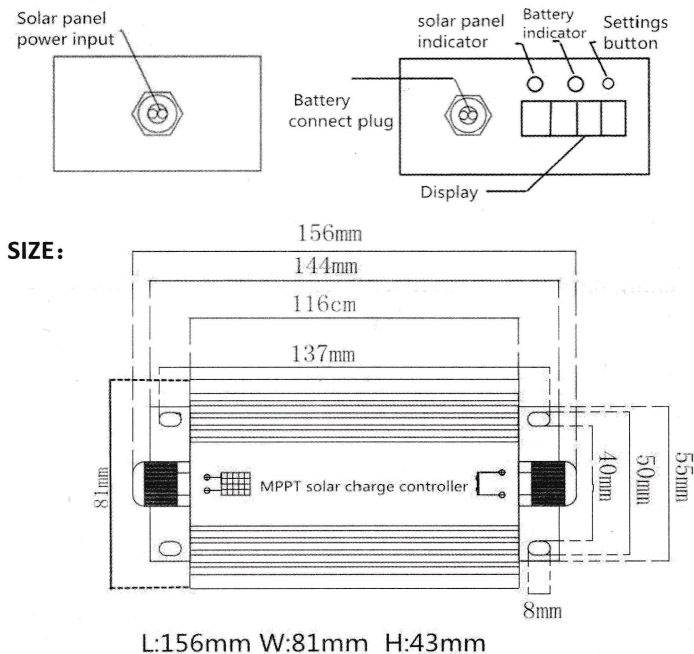
### Scope of application

The controller is designed for solar panel charging only, voltage 24V/36V/48V/60V/72V optional, lead-acid or lithium battery version optional.

### Function

1. Optional battery voltage for 24V/36V/48V/60V/72V ,or setting the battery charging voltage as your will.(User setting by the inner switch button)
2. Built-in child lock safety switch,After locked, the external battery parameters can not be set to prevent misuse caused by charging button error, child lock does not affect the digital display and voltage query.
3. High performance MCU design, 4 LED digital display the solar panel charging voltage, the charging current and battery voltage.
4. Improved charging program for high efficiency.
6. LED screen to see the solar panel and battery status.
7. No power consumption from the battery.
8. Over charging, solar panel and battery opposite connection protection.

### Drawing instruction



### LED lights display instruction

LED	status	function
SOLAR	off	In the darkness or the solar panel is not connected
	on	Solar panel on charging
BAT	on	Battery voltage input
	blink	Battery fully charged
	Off	Charging stop

### Controller installation and instruction

1. Fix the install position and wire length accordingly, wire length should be as short as possible to avoid electrical loss.
2. Connect the solar panel, do not opposite connect it. The light solar panel light will be on if it is connected correct.
3. Connect the battery, do not opposite connect it. The solar panel charging current will be on if it is connected correct. Be sure the solar panel is under the sun light.

### Display Mode Description:

Display	instruction
24V	Select 24V battery, long press storage
36V	Select 36V battery, long press storage
48V	Select 48V battery, long press storage
60V	Select 60V battery, long press storage
72V	Select 72V battery, long press storage
Self	Long press to enter, set the voltage, 10 seconds without operation, automatic storage. Custom battery voltage setting range (24V ~ 87V) / $\pm 0.1V$

### Set Button Operation Description:

1. LED display normal display the voltage of the solar panel, the solar panel current, the battery voltage alternately 3 seconds interval display.(p. + Value - Indicates the current voltage of the solar panel; c. + Value - Indicates the current charging current of the solar panel; b. + Value - Indicates the current voltage of battery)
2. Press the button briefly to turn the LED display on or off.
3. Press the button for 10 seconds, the green light goes off, the digital tube value flashing, that is, enter the voltage setting state. Release the button, then each time you press a key mode value will be converted to a number, while the second and three digital tube display the corresponding parameters of this mode, select the appropriate voltage, long press 10 seconds storage, digital display flashing, green light, said storage, system parameters set is completed.
4. SELF means that the user can define the charging voltage. When SELF is flashing, press and hold it for 5