

LBC Solar Charge Controller

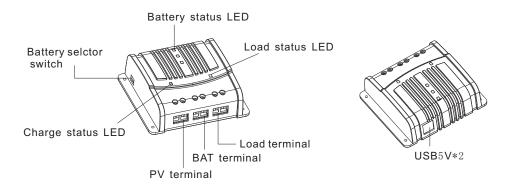
(Suitable for Sealed, GEL, Lithium battery)

USER MANUAL

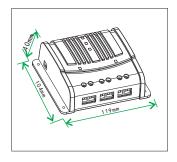
Function

- 1. Automatic adaptive 12V or 24V system voltage
- 2.suitable for sealed, GEL, Lithium three battery
- 3.PWM charge technology
- 4.output double USB5V/500mA
- 5.complete electronic protection

Part Name



安装方法



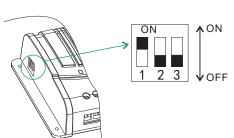
Please installed in the room, avoiding direct-clearance, do not install in the wet environment, if used outdoors, please note that waterproof moisture. Please controller and the batteries installed in the same place, the controller can be seized Measuring the battery temperature, charge voltage regulation.

Attention

- 1. Screws specifications M3 imes 10 (since the attack)
- 2. Make sure that heat-location around other objects were not blocke

Operation instructions

Battery selection



Battery type

	<i>J</i> 1		
Battery type	switch1	switch2	switch3
Sealed	on (up)	off(down)	off(down)
GEL/AGM	off(down)	on (up)	off(down)
Lithium LiFePO4, 12.8V	off(down)	off(down)	on (up)

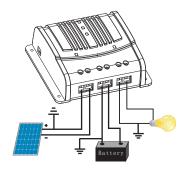
NOTE:

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If you choose lithium battery, Please ensure that you connect the lithium battery type is LiFePO4, standard voltage is 12.8V,other types of luthium battery does not apply.

IF you want use other types of lithium battery, please connect the supplier.

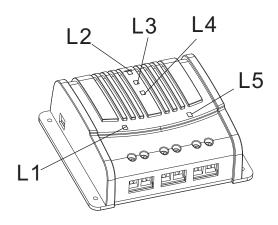
Connecting



Be aware that the positive terminals of the LBC controller are connected internally and therefore have the same electrical potential. if any grounding is required ,always do this on the positive wires.

REMARK: If the device is used in a vehicle which has the battery negative on the chassis, loads connected to the regulator must not have an electric connection to the carbody

Display functions



battery capacity	L2	L3	L4	
	flash	flash	flash	battery type error
	ON	ON	ON	100%
	ON	ON	OFF	75%
	Flash	OFF	OFF	50%
	OFF	OFF	OFF	20%
L5(Red)	OFF			normal working
Load status	ON			LVD/HVD protection
	Flash	1		Over-load or shortcurrent
L1(Green) Charge status	OFF			no charging
	ON			Charging

Parameter

Model	LBC10			LBC20	
Max.charge current	10 A			20A	
Max. load current	10 A			20A	
System voltage	12V/24VDC automatic				
Max. PV voltage	50V				
Max. battery voltage	30V				
USB output	USB5V/2A				
Battery type	sealed	GEL/AGM	Lith	ium(LiFePO4, 12.8V)	
Float charge	13.8V	13.8V	no		
Boost charge	14.4V	14.2V	14.4V		
Over-voltage portection	16V	16V	16V		
low-voltage portection	11V	11V	10.5V		
reconnect voltage	12.6v	12.6v	12.8v		
selfconsumption	<10mA				
Grounding	positive grounding				
Ambient temperature	-40-60 °C				
battery type	Sealed , GEL/AGM ,lithium(LiFePO4/12.8V)				
Dimensions	119mm*104mm*40mm				
Weight	200g				
IP	IP22				

Note: 24V sysem: parameter value*2