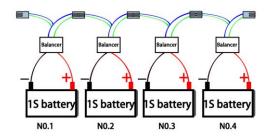
SOLARKING

Active Cell Balancer
User Instructions
SK-CB2S & SK-CB4S

Main parameter

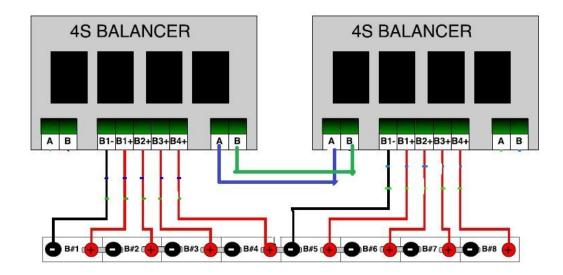
Battery capacity limited	Unlimited
Battery count limited	2S~unlimited
	At least balance 2 cells
Battery type limited	Battery:Lifepo4,LiMnO4 etc
	AGM,Gell,Flooded battery and so on
Working voltage	1.8V~5V (For individual Cells)
Power consumption	<50mW per 1S
Balance method	Energy transfer &Dynamic
Voltage difference VS Balance current	300mV-1A; 1V-3A
Voltage difference after using the equalizer	<10mv(non-lighted equalizer)
	<20mv(lighted equalizer)
	<30mv(12V lead acid)
Working efficiency when balance current is 1A	>94%
Working temperature	-40~+80°Cor -40°F to 176°F
Storage temperature	-40~+100°C or -40°F to 212°F
- ·	
BMS limited	can work with BMS
	Or can work independently

Wiring diagram for SK-BB2S single equalizer



Always start connecting the balancers from the negative terminal of each cell. The first white connector on the left and the last white one on the right are to be left un-connected.

Wiring diagram for SK-BB4S balance module the same way as 5S 6S 7S 8S.



Description of LED lights for SK-BB2S, please read the following instructions:

NO.	Left Light	Right Light	Status	Remarks
1	ON		Normal	one separate light stands for this status
2		ON •	Discharging the cell	one separate light stands for this status
3		ON •	Charging the cell	one separate light stands for this status
4	ON •		Over balance current Protection and short circuit protection	balance current>2.8A, Release in 10seconds
5	OFF ()	OFF O	Disconnected or defective	
6	ON	OFF O	Balanced	Balance is complete for this battery

INSTALLATION INSTRUCTIONS:

- -Prepare your cells and equalizer. Connect the equalizer together first before connecting them to the cells. Don't mix using the equalizer for lithium and lead acid batteries.
- -Once you have the modules connected you may start to wire to module to the cells. The first connection should be to the B1- port on the module to the negative terminal on cell #1 (there only needs to be one connection to a negative terminal per application)
- -For the rest of the connections, start with cell #1 positive and B1+ on the module and work your way through your pack in order from 1, 2, 3 and so on.
- -If installed correctly there should be a slight humming sounds coming from the module.
- -please use no smaller than 17AWG wires. Try the best to shorten the wire lengths between equalizer to each battery that ensures better balance performance.

WARNING:

First, after finishing installation, please watch for about 5min~30minutes. If any equalizer becomes very hot, it means the wiring is wrong. Please disconnect balance connector of that hot equalizer quickly. Double check the wiring.

Second, the balance current is dependent on the voltage difference, the higher volt difference, the higher balance current will have; vice versa. The balance speed is determined by how different your batteries are, how large is your battery, how long the equalizers are installed. They will improve your batteries gradually only if the wiring is correct. So please be patient and wait for more days.

Third,for less than 50AH batteries,recharge the batteries at least once a month.for over 50AH batteries,at least once two months.if you don't use the batteries over 3months,please disconnect the equalizers. Disconnect balance wires first and then disconnect wires from each battery.