

Capacitive Equalizer

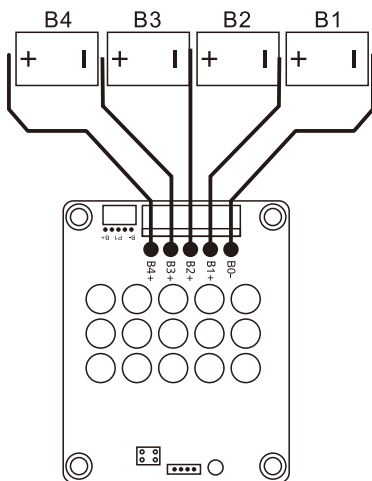
Working voltage 2.5V-4.5V, suitable for ternary lithium, lithium iron phosphate, lithium titanate.

Working principle, the capacitor transfers the charge porter, and the equalization board is connected to the battery to start the equalization work. It adopts the original brand new ultra-low internal resistance MOS, 20Z copper thickness PCB, and the equalization current is 0-5.5A (lab test data). The smaller the equalization current is, the wiring position of the sleep switch is reserved. The working current of the sleep power-off mode is less than 0.1mA, and the equalization voltage accuracy is within 5mV! The quiescent current within 8S is about 8mA, and the quiescent current of 10S-21S is about 16mA. (The quiescent current may vary, please refer to the actual situation). It is recommended that the battery capacity should be suitable for batteries with a capacity of 60-300AH! With under-voltage sleep protection, when the voltage is lower than 2.5V, it will automatically stop and enter the sleep state, and the standby power consumption is less than 0.1 mA.

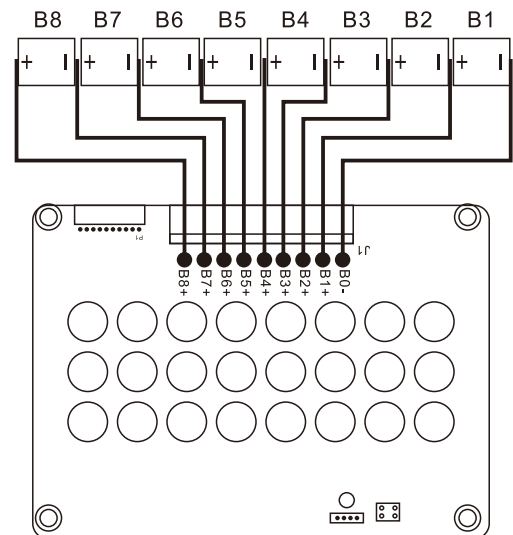
Technical Parameter

Model No.	AB-4S5A	AB-8S5A	AB-16S5A
Applicable strings	4S	4-8S	8-16S
Applicable battery type	NCM/LEP/LTO		
Single voltage working range	> 2.5V		
Voltage equalization accuracy	5mV(Typical value)		
Balanced way	The entire battery group participates in the active balancing of energy transfer at the same time		
Balance current	0.08V voltage difference 1A equalizing current, the voltage difference is proportional to the equalizing current, the maximum allowable working current is 6.0A		
Under-voltage protection sleep voltage	< 2.5V		
Quiescent operating current	9mA	7mA	15mA
Product Size(mm)	80*58*16	97*92*16	188*85*16
Installation size(mm)	69*47	86*81	178*75
Working temperature	-10°C~+60°C		
Whether an external power supply is required	No external power supply is required, and the entire group is balanced by relying on the internal energy transfer of the battery		

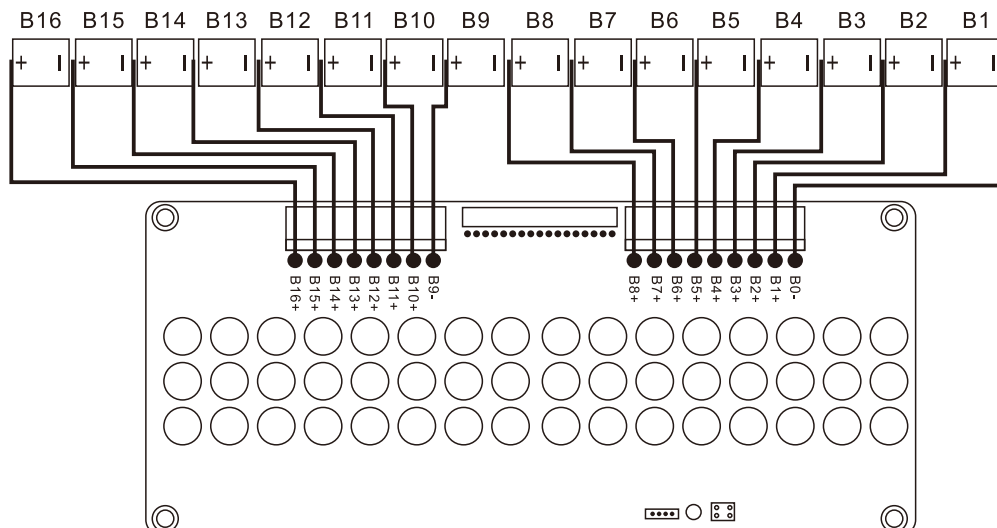
4S Capacitive Wiring Diagram



8S Capacitive Wiring Diagram



16S Capacitive Wiring Diagram



电容式均衡板

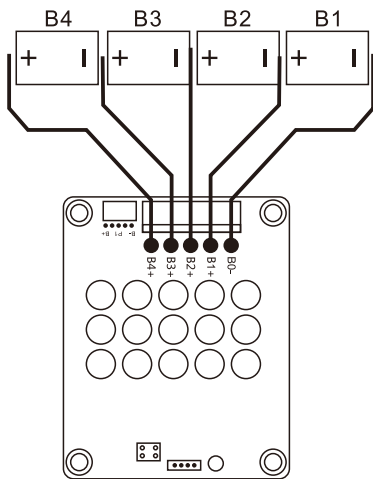
工作电压2.5V-4.5V，适用于三元锂、磷酸铁锂、钛酸锂。

工作原理，电容转移电荷搬运工，均衡板接入电池就开启均衡工作，采用原装全新超低内阻MOS，20Z铜厚PCB，均衡电流0-5.5A(实验室测试数据)，电池越均衡电流越小，预留休眠开关接线位置，休眠断电模式工作电流小于0.1mA，均衡电压精度5mV以内！8S以内静态电流8mA左右，10S-21S的静态电流在16mA左右，(静态电流会有偏差请以实际为准)。建议电池容量要在60-300AH的电池适用！带欠压休眠保护，电压低于2.5V会自动停止进入休眠状态，待机功耗0.1毫安不到，电容式均衡优点均衡电流高效率发热小稳定。

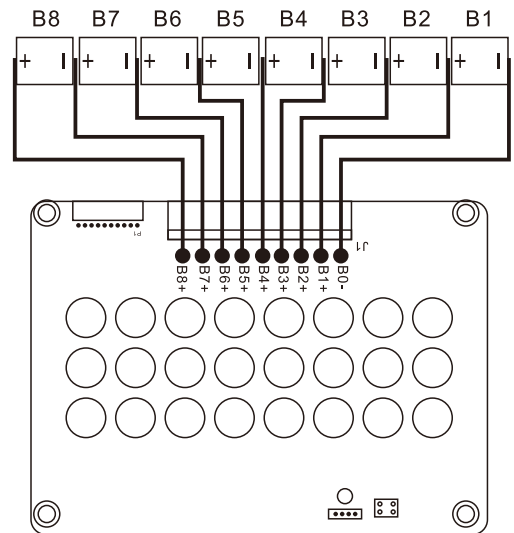
技术参数

技术指标	AB-4S5A	AB-8S5A	AB-16S5A
适用串数	4S	4-8S	8-16S
适用电池类型	NCM/LEP/LTO		
单体电压工作范围	> 2.5V		
电压均衡精度	5mV(典型值)		
均衡方式	整组电池同时参与能量转移主动均衡		
均衡电流	0.08V 压差1A均衡电流，压差与均衡电流成正比例，最大允许工作电流为6.0A		
欠压保护休眠电压	< 2.5V		
静态工作电流	9mA	7mA	15mA
产品尺寸(mm)	80*58*16	97*92*16	188*85*16
安装孔尺寸(mm)	69*47	86*81	178*75
工作环境温度	-10度至+60度		
是否需要外接电源	无需外接电源，依靠电池内部能量转移实现整组均衡		

4S电容式接线图



8S电容式接线图



16S电容式接线图

