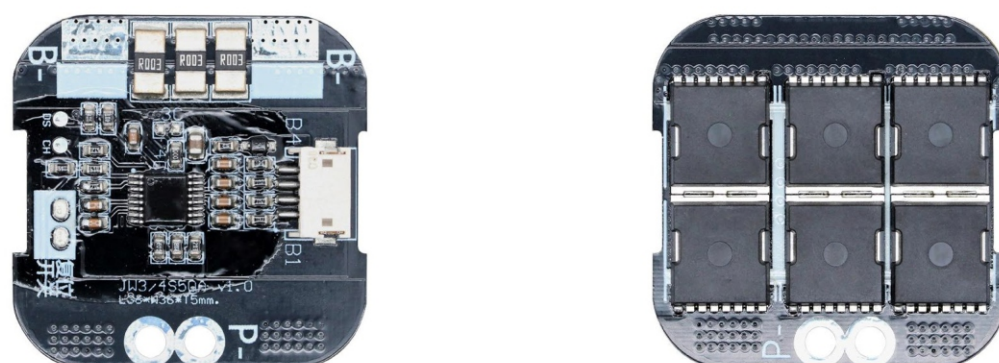


▶ EK-B3Sr4S50AR



EK-B3Sr4S50AR Parameter Description	
Battery string	3S/4S
Size(mm)	L36*W36*T8
Weight	10g
Continuous current	50A
Peak current	100A
Temperature protect	Without
Balancing	Without
Battery type	Li-ion(NCM)
Base material/Surface treatment	FR-4 / Lead-free spray tin
Remark	Charging and discharging in same port
Feature	Automotive-grade MOS, 2oz thickened copper foil and copper strip current sharing, high precision, ultra-low internal resistance, ultra-low heat generation Overcharge protection, over-discharge protection, over-current protection, over-temperature protection, short-circuit protection, anti-static protection, dust and moisture protection, etc.
Application	Battery packs for portable electric screwdrivers, electric drills, electric saws, power tools, portable vacuum cleaners, small household appliances, etc.

EK-B3Sr4S50AR Instructions					
Instructions for switching the number of strings	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px dashed gray; padding: 10px; text-align: center;"> <p>A</p> </div> <div style="text-align: center;"> </div> </div> <p>This protection board supports 3S-4S to achieve different string number selection by changing the A part.</p> <p>3S: Connect the "3C" position with 0Ω resistors; the "4C" position is empty.</p> <p>4S: Connect the "4C" position with 0 resistors; the "3C" position is empty.</p>				
Wiring diagram	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p style="text-align: center;">3S</p> <p style="text-align: center;">"EK-B3Sr4S50AR" 3S 接线图 "EK-B3Sr4S50AR" 3S Wiring Diagram</p> <p>3S: Connect the "3C" position with a 0Ω resistor; the "4C" position is empty.</p> <p>Note: Please change the circuit at PCB "A" to 3S first, and then connect!</p> </div> <div style="width: 48%;"> <p style="text-align: center;">4S</p> <p style="text-align: center;">"EK-B3Sr4S50AR" 4S 接线图 "EK-B3Sr4S50AR" 4S Wiring Diagram</p> <p>3S: Connect the "4C" position with a 0Ω resistor; the "3C" position is empty.</p> <p>Note: Please change the circuit at PCB "A" to 3S first, and then connect!</p> </div> </div>				
Wiring precautions	<ol style="list-style-type: none"> ①. Installing the protective board requires a certain amount of technical electronic knowledge ②. Please solder the battery voltage collection line to the protective plate first, and then install it on the battery pack to fix it. Follow the order of welding from low to high, from B-..B1..B2 ③. The connection between the battery terminal B- and the protection board terminal B- should be short and thick, otherwise it will cause the protection board to charge and discharge in advance and malfunction. You need to use thick wires when wiring P+/P-. Wires that are too thin and too long will burn the board! ④. After connecting the battery, please pay attention to the insulation protection of the product to avoid short circuit when the power is on 				
Frequently Asked Questions	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Phenomenon</th> <th style="width: 50%; text-align: center;">Solution</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; vertical-align: top;">After the protective board is installed, No output or wrong output voltage</td> <td style="vertical-align: top;"> <ol style="list-style-type: none"> ① Activate the protection board: Connect the charger to power on or short-circuit P- and B- for 2-3 seconds. ② Then measure whether the output voltage is normal; The wiring order is wrong: measure whether the voltage of each battery string is normal. </td> </tr> </tbody> </table>	Phenomenon	Solution	After the protective board is installed, No output or wrong output voltage	<ol style="list-style-type: none"> ① Activate the protection board: Connect the charger to power on or short-circuit P- and B- for 2-3 seconds. ② Then measure whether the output voltage is normal; The wiring order is wrong: measure whether the voltage of each battery string is normal.
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