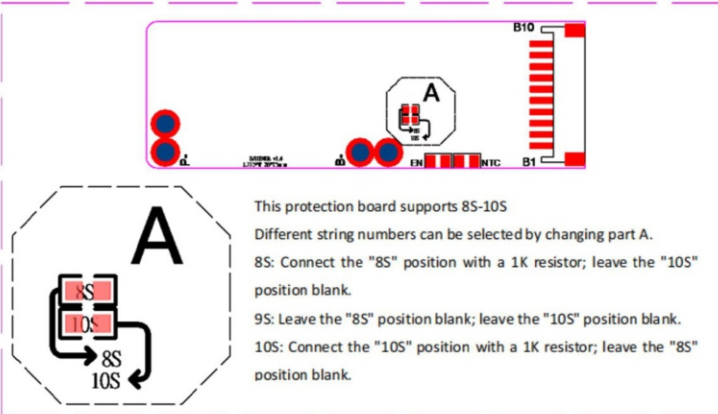
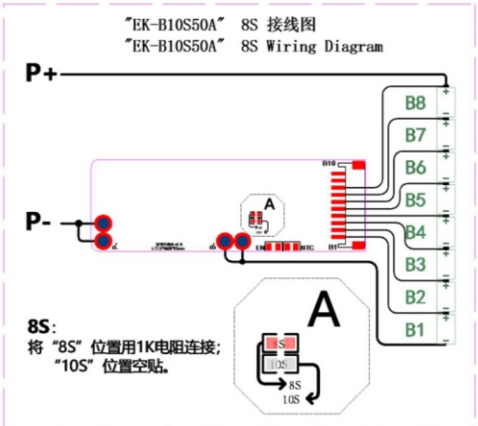
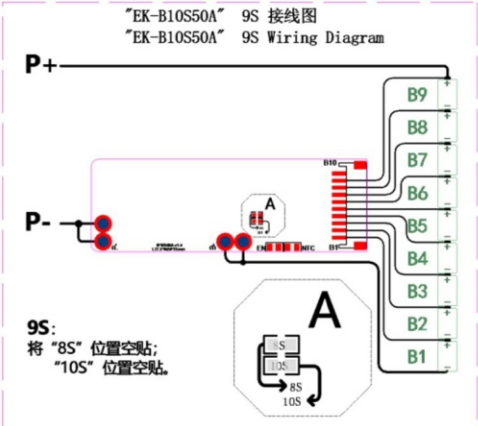
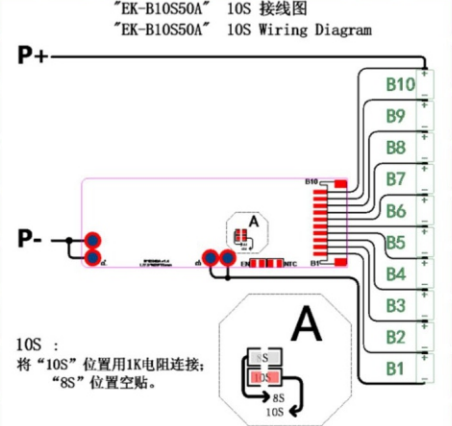


# ▶ EK-B10S50A



EK-B10S50A Parameter Description	
Battery string	8S/9S/10S
Size(mm)	L77.5*W26*T7.3
Weight	22g
Continuous current	50A
Peak current	80A
Temperature protect	With
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-B10S50A Instructions							
Instructions for switching the number of strings	<p style="text-align: center;">EK-B10S50A supports 8S, 9S and 10S. You can switch the appropriate number of strings by changing the A part</p> <div style="display: flex; justify-content: space-around; align-items: center;">  <div style="text-align: left;"> <p>This protection board supports 8S-10S Different string numbers can be selected by changing part A.</p> <p>8S: Connect the "8S" position with a 1K resistor; leave the "10S" position blank.</p> <p>9S: Leave the "8S" position blank; leave the "10S" position blank.</p> <p>10S: Connect the "10S" position with a 1K resistor; leave the "8S" position blank.</p> </div> </div>						
Wiring diagram	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p style="text-align: center;">8S</p> <p style="text-align: center;">“EK-B10S50A” 8S 接线图 “EK-B10S50A” 8S Wiring Diagram</p>  <p>8S: 将“8S”位置用1K电阻连接; “10S”位置空贴。</p> </div> <div style="width: 30%;"> <p style="text-align: center;">9S</p> <p style="text-align: center;">“EK-B10S50A” 9S 接线图 “EK-B10S50A” 9S Wiring Diagram</p>  <p>9S: 将“8S”位置空贴; “10S”位置空贴。</p> </div> <div style="width: 30%;"> <p style="text-align: center;">10S</p> <p style="text-align: center;">“EK-B10S50A” 10S 接线图 “EK-B10S50A” 10S Wiring Diagram</p>  <p>10S: 将“10S”位置用1K电阻连接; “8S”位置空贴。</p> </div> </div>						
Wiring precautions	<ol style="list-style-type: none"> <li>①. Installing the protective board requires a certain amount of technical electronic knowledge</li> <li>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</li> <li>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!</li> <li>④. After connecting the battery, please pay attention to the insulation protection of the product to avoid short circuit when the power is on</li> </ol>						
Frequently Asked Questions	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Phenomenon</th> <th style="width: 50%;">Solution</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">After the protective board is installed, No output or wrong output voltage</td> <td> <ol style="list-style-type: none"> <li>① Activate the protection board: Connect the charger to power on or short-circuit P- and B- for 2-3 seconds.</li> <li>② Then measure whether the output voltage is normal; The wiring order is wrong: measure whether the voltage of each battery string is normal.</li> </ol> </td> </tr> <tr> <td style="text-align: center;">After the protective board is installed, After using it for a while, the power was cut off</td> <td>Check whether the installation position of the NTC probe is normal, It should be installed close to the battery and not placed on the protective board</td> </tr> </tbody> </table>	Phenomenon	Solution	After the protective board is installed, No output or wrong output voltage	<ol style="list-style-type: none"> <li>① Activate the protection board: Connect the charger to power on or short-circuit P- and B- for 2-3 seconds.</li> <li>② Then measure whether the output voltage is normal; The wiring order is wrong: measure whether the voltage of each battery string is normal.</li> </ol>	After the protective board is installed, After using it for a while, the power was cut off	Check whether the installation position of the NTC probe is normal, It should be installed close to the battery and not placed on the protective board
Phenomenon	Solution						
After the protective board is installed, No output or wrong output voltage	<ol style="list-style-type: none"> <li>① Activate the protection board: Connect the charger to power on or short-circuit P- and B- for 2-3 seconds.</li> <li>② Then measure whether the output voltage is normal; The wiring order is wrong: measure whether the voltage of each battery string is normal.</li> </ol>						
After the protective board is installed, After using it for a while, the power was cut off	Check whether the installation position of the NTC probe is normal, It should be installed close to the battery and not placed on the protective board						