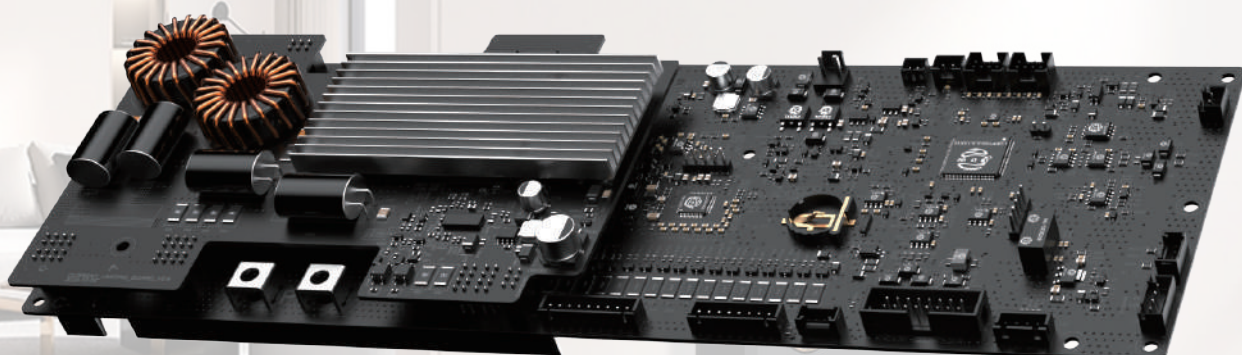


16S Low Voltage BMS

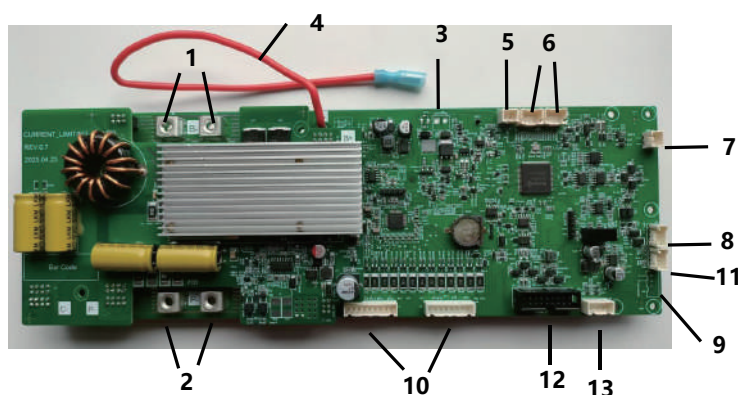


5120WH

Main functions

- Wide operating voltage range;
- Isolating power circuit;
- Integrated multi-channel serial port IC;
- High-precision voltage acquisition;
- High-precision current acquisition;
- High-precision temperature detection;
- SOC and SOH estimation function;
- Short circuit protection function;
- Adjustable overcurrent protection;
- Multiple sleep and wake-up modes;
- 2-way RS485 communication, 1-way CAN communication;
- Adjustable parameter settings;
- 12-way LED status indication function;
- LCD display output function;
- Charge balancing function.

Product Appearance



Number	Interface Name
1	Internal PACK negative terminal block (connected to battery B-)
2	Battery pack external negative terminal (connected to PACK P-)
3	Heating film interface
4	BMS power supply (connect B+)
5	On/off button interface
6	Battery cell temperature acquisition interface*8 channels
7	Battery parallel communication interface
8	Dry contact interface
9	External power interface
10	Voltage acquisition interface*17 channels
11	LED display light board interface
12	Battery and inverter communication interface + BMS dip switch
13	LCD communication interface

BMS Product Image

Technical Parameters

Name	Parameter
Model	NK-BMS-16S100A-02
Battery cell voltage detection	
Cell voltage temperature detection range	-50~125℃
Battery cell voltage detection range	1~5V (@ -10~50℃)
Voltage sampling accuracy	±5mV
Single cell voltage sampling frequency	≤100ms
Balance	Passive balancing (80mA
Battery pack temperature detection	
Temperature detection range	-50~125℃
Temperature detection accuracy	≤±2℃ (NTC,@-50~125℃)
Temperature sampling frequency	≤1000ms
Number of temperature samples	8 units
Battery pack current detection	
Current sampling range	-200A~+200A
Current detection accuracy	≤±0.5A (-30A~30A)
Current acquisition frequency	≤250ms
Battery pack total voltage detection	
Total pressure detection range	16~65V
Total pressure detection accuracy	<1%FSR(Full scale)
Total pressure acquisition frequency	≤100ms
BMS power supply and activation	
Supply voltage range	16~65V
Standby power consumption	<400μA
Working power consumption	<55mA
Signal activation	Power on and charge
Inverter charging activation	30~65V
Other parameters	
Circuit breaker detection	No
Continuous charge and discharge current	100A (temperature rise does not exceed 70℃
Parallel connection	Support parallel connection, quantity ≤ 16
BMS operating environment temperature	-30~60℃
BMS storage temperature range	-30~85℃
BMS operating humidity range	5~90%RH (No condensation)
BMS storage humidity range	5~90%RH (No condensation)



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