

Download link-IOS : [Search \(JIKONG BMS\) in the APP STORE](#)

Download link-Andriod : [Search \(JK BMS\) in the Google STORE](#)

NOTE: For instructions on heating cables,

the green 5PIN cable of the heating cable needs to be linked to the heating pad,

and the rest of the black and red cables are linked to the smart charger

(after the smart charger links the BMS,

it detects the temperature of the battery through the BMS,

which automatically monitors the charging status of the battery)

Heat Function interface

Description of heating function:

Battery temperature is below low temperature charge protection, turn off charging, turn on heating.

Cryogenic charge protection is a parameter that can be set within APP

The heating power depends on the battery voltage and the resistance value of the heating film.

Battery voltage U.

Heating resistance R.

Power equals  $U^2/R$

Heating current  $I=U/R$ ;

The maximum I (current) of the board design is 3A.

MAX heating power 200W(100W OF B2A8S20P).

# JK SMART ACTIVE BMS

Technical Index	Product Specifications												
	BD4A17S4P	BD4A20S4P	BD4A24S4P	BD6A17S6P	BD6A20S6P	BD6A24S6P	BD6A17S8P	BD6A20S8P	BD6A24S8P	BD6A20S10P	BD6A24S10P	B1A17S12P	
Number of Battery Strings(Li-ion)	7S~17S	7S~20S	7S~24S	7S~17S	7S~20S	7S~24S	7S~17S	7S~20S	7S~24S	7S~20S	7S~24S	7S~17S	
Number of Battery Strings(Lifepo4)	8S~17S	8S~20S	8S~24S	8S~17S	8S~20S	8S~24S	8S~17S	8S~20S	8S~24S	8S~20S	8S~24S	8S~17S	
Number of Battery Strings(LTO)	12S~17S	12S~20S	12S~24S	12S~17S	12S~20S	12S~24S	12S~17S	12S~20S	12S~24S	12S~20S	12S~24S	12S~17S	
Balance Method	Active Balance(Full State On)												
Balance Current	0.4A	0.4A	0.4A	0.6A	0.6A	0.6A	0.6A	0.6A	0.6A	0.6A	0.6A	0.6A	
Conductive Resistance in Main Circuit	2.8mΩ	2.8mΩ	2.8mΩ	1.53mΩ	1.53mΩ	1.53mΩ	1.2mΩ	1.2mΩ	1.2mΩ	1mΩ	1mΩ	0.65mΩ	
Continuous Discharge Current	40A	40A	40A	60A	60A	60A	80A	80A	80A	100A	100A	120A	
Continuous Charge Current	40A	40A	40A	60A	60A	60A	80A	80A	80A	100A	100A	120A	
Maximum Discharge Current(MAX 2min)	60A	60A	60A	100A	100A	100A	150A	150A	150A	200A	200A	250A	
Over Charge Protection Current(ADJ)	10~40A	10~40A	10~40A	10~60A	10~60A	10~60A	10~80A	10~80A	10~80A	10~100A	10~100A	10~100A	
Other Interfaces (Default)	RS485	RS485	RS485	RS485	RS485	RS485	RS485	RS485	RS485	RS485	RS485	RS485	
Other Interfaces (Customized)	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	
Size/mm	110*73*18mm		116*83*18	133*81*18mm					162*102*20mm				
Wiring Output	Common Port												
Technical Index	Product Specifications												
	B1A20S12P	B1A20S15P	B1A24S15P	B2A24S15P	B2A20S20P	B2A24S20P	BD4A8S4P	B1A8S10P	B1A8S20P	B2A8S20P	B2A25SRP	B5A25S60P	
Number of Battery Strings(Li-ion)	7S~20S	7S~20S	7S~24S	7S~24S	7S~20S	7S~24S	3S~8S	3S~8S	3S~8S	3S~8S	8S~25S	8S~25S	
Number of Battery Strings(Lifepo4)	8S~20S	8S~20S	8S~24S	8S~24S	8S~20S	8S~24S	4S~8S	4S~8S	4S~8S	4S~8S	8S~25S	8S~25S	
Number of Battery Strings(LTO)	12S~20S	12S~20S	12S~24S	12S~24S	12S~20S	12S~24S	6S~8S	6S~8S	6S~8S	6S~8S	12S~25S	12S~25S	
Balance Method	Active Balance(Full State On)												
Balance Current	0.6A	1A	1A	2A	2A	2A	0.4A	1A	1A	2A	2A	5A	
Conductive Resistance in Main Circuit	0.65mΩ	0.65mΩ	0.65mΩ	0.47mΩ	0.47mΩ	0.47mΩ	2.8mΩ	0.3mΩ	0.3mΩ	0.3mΩ	/	/	
Continuous Discharge Current	120A	150A	150A	150A	200A	200A	40A	100A	200A	200A	1000A	500A	
Continuous Charge Current	120A	150A	150A	150A	200A	200A	40A	100A	200A	200A	1000A	500A	
Maximum Discharge Current(MAX 2min)	250A	300A	300A	300A	350A	350A	60A	200A	350A	350A	/	/	
Over Charge Protection Current(ADJ)	10~100A	10~150A	10~150A	10~150A	10~200A	10~200A	10~40A	10~100A	10~200A	10~200A	10~1000A	10~600A	
Other Interfaces (Default)	RS485	RS485	RS485	RS485	RS485	RS485	RS485	RS485	RS485	RS485	RS485 CANBUS	RS485 CANBUS	
Other Interfaces (Customized)	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	CANBUS /HEAT	/	/	
Size/mm	162*102*20mm						110*73*18	153*136*18mm				189*94*24	234*134*32
Wiring Output	Common Port										Split Port		
Single Cell Voltage Range	1-5V												
Voltage Acquisition Accuracy	±5mV												
Over Charge Protection Voltage	1.2-4.35V Adjustable												
Over Charge Release Voltage	1.2-4.35V Adjustable												
Over Current Detect Delay	2~120S Adjustable												
Over Discharge Protection Voltage	1.2-4.35V Adjustable												
Over Discharge Release Voltage	1.2-4.35V Adjustable												
Quantity of Temperature Detection	3Pcs												
Temp Protection	Yes												
Short Circuit protection	Yes												
Coulomb Counter	Yes												
Bluetooth Function	Support for Android / IOS phone												



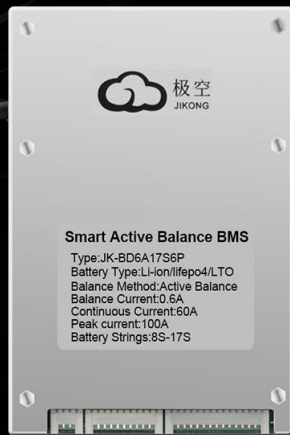
# JK-BD6A17S6P

Active Balance BMS

Active Balance Current:0.6A

Adapt Battery Strings:10S-17S(LTO)  
7S-17S(Li-ion)  
8S-17S(Lifepo4)

Continuous Discharge/Charge Current:60A

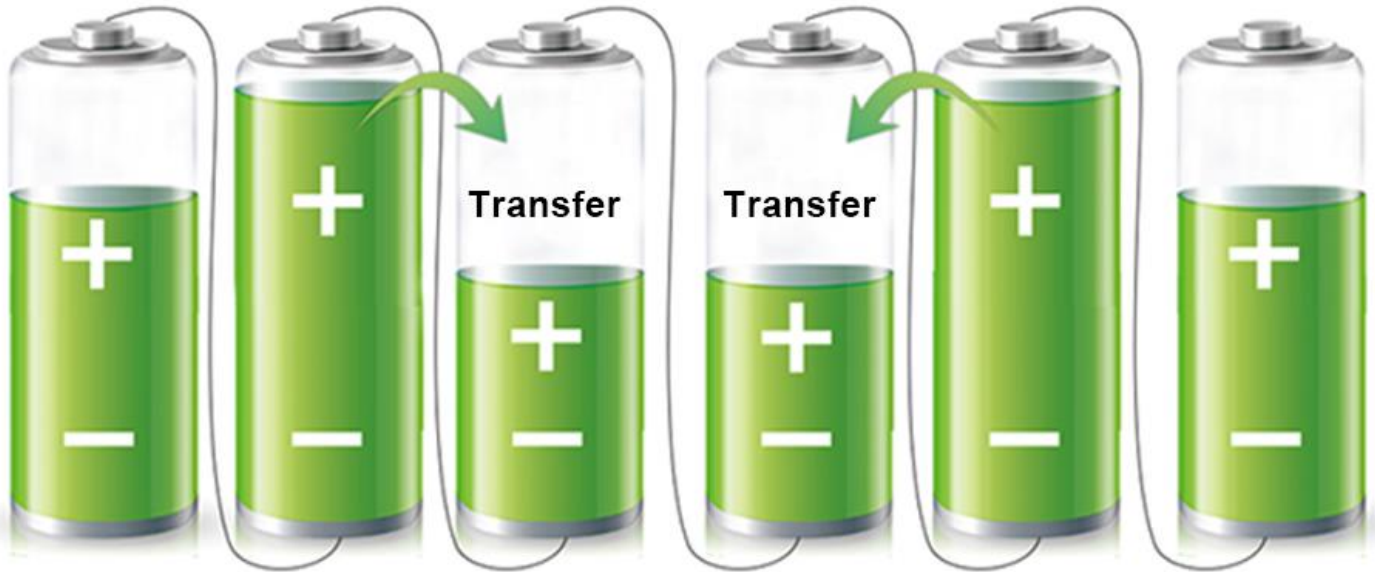


## Smart Active Balance BMS

Type:JK-BD6A17S6P  
Battery Type:Li-ion/lifepo4/LTO  
Balance Method:Active Balance  
Balance Current:0.6A  
Continuous Current:60A  
Peak current:100A  
Battery Strings:8S-17S

# SIX SECURITY PROTECTION

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## Over charge Protection

Prevent over-charging  
Affects battery life



## Short circuit protection

Automatic protection  
when short circuit protection



## Over discharge protection

Prevent the battery  
from running out



## over current protection

Prevent the current  
from exceeding  
the battery range



## ALL-IN protection

Prevent cable drop  
or poor contact



## Over temp protection

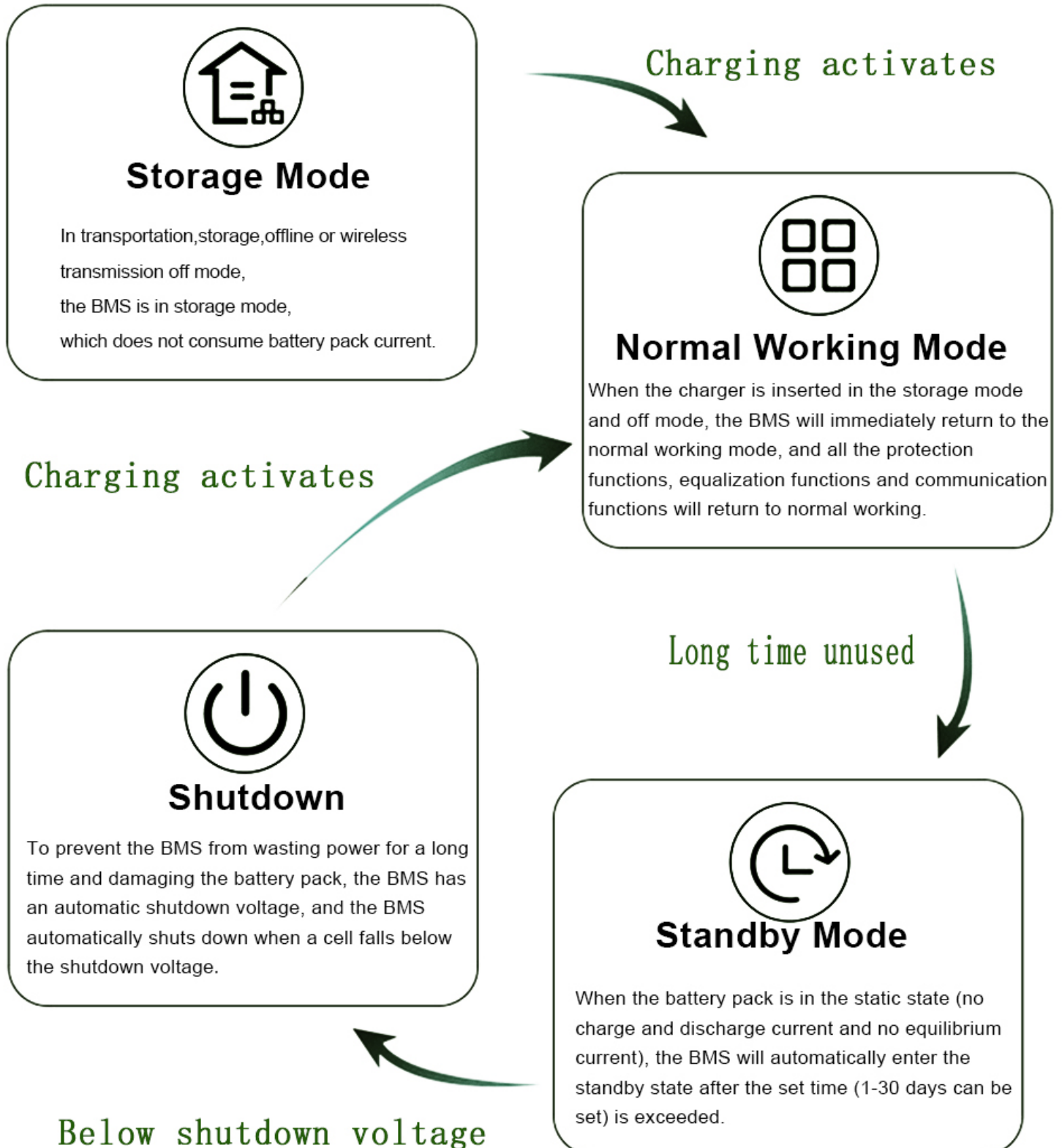
Prevent the battery  
from over heating

## Support IOS /Android System

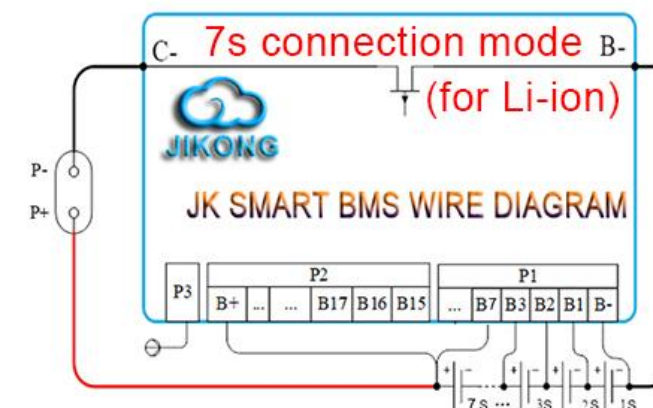
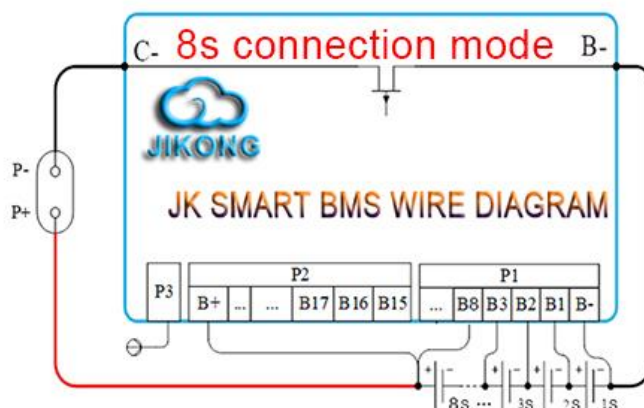
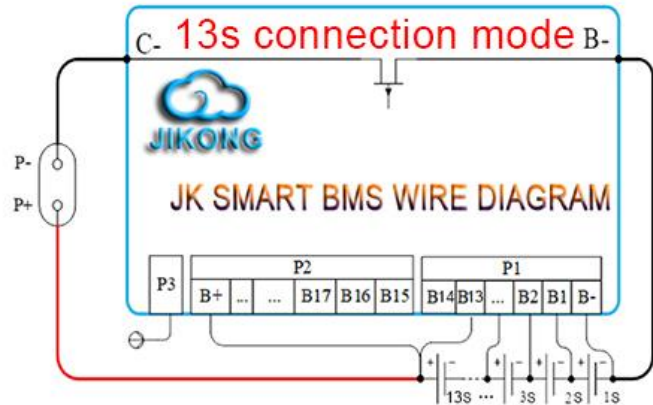
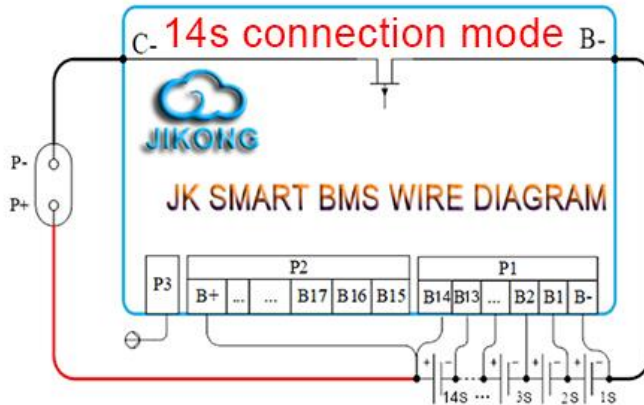
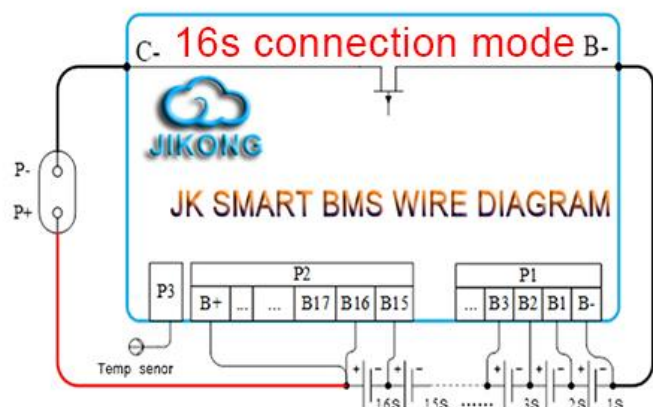
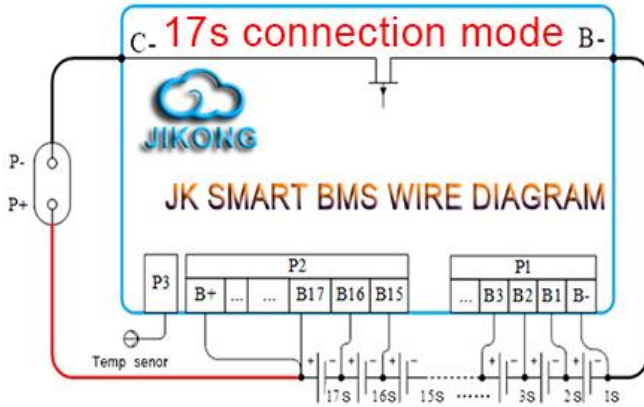
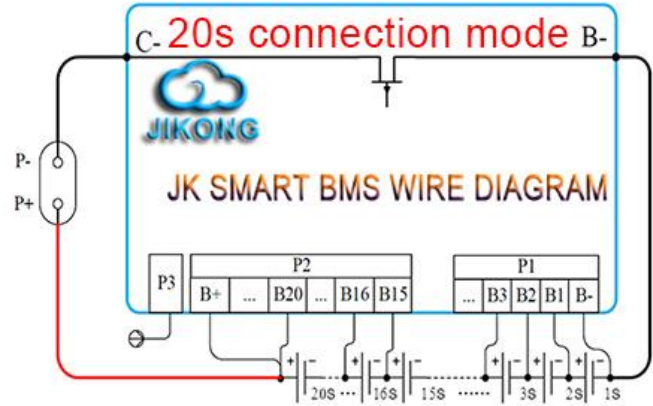
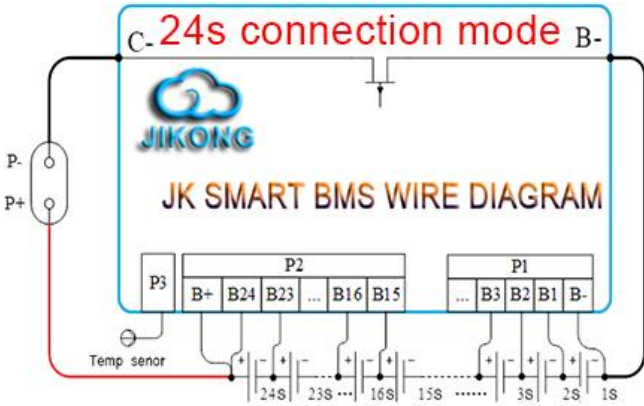


Download the specified Bluetooth application and activate the BMS.  
Open the Bluetooth application and find the relevant serial number, then you can check all the data.

# Smart energy working mode switching

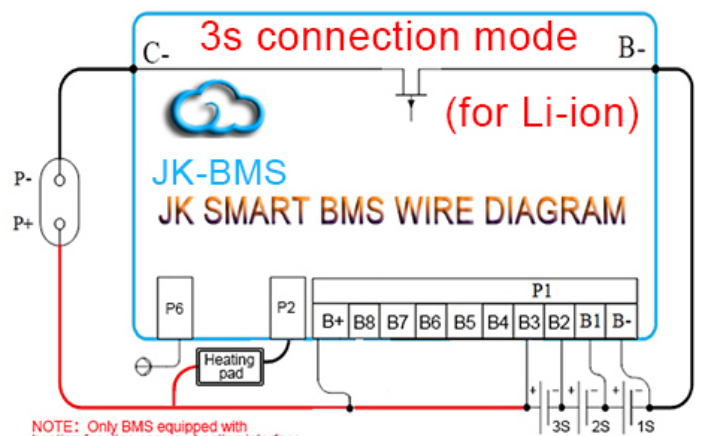
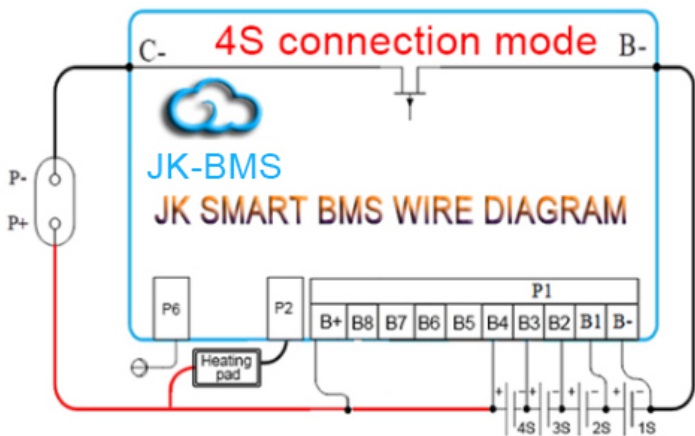
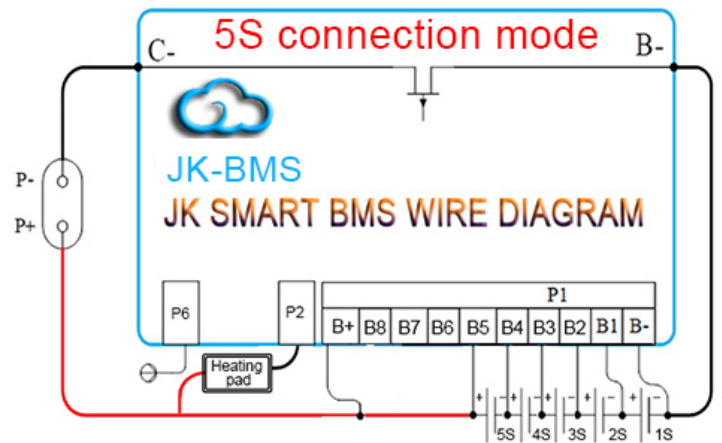
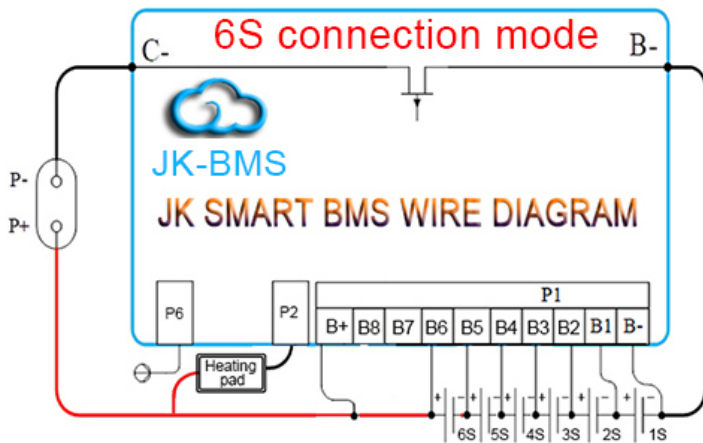
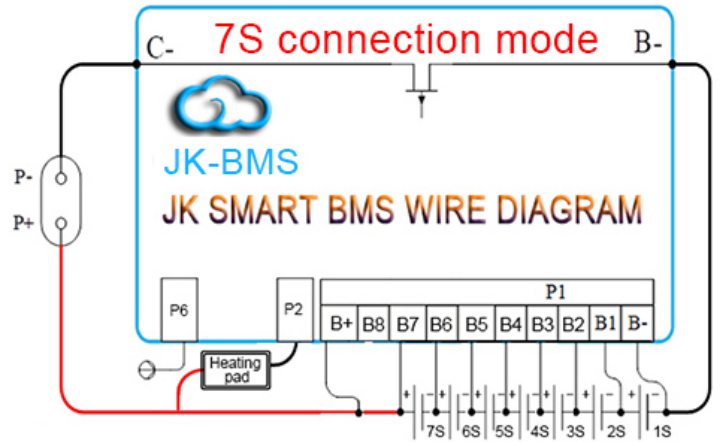
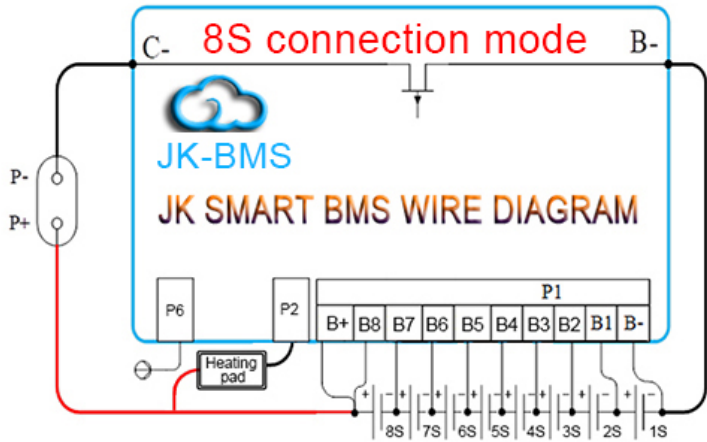


# Example of connection mode



# Example of connection mode

**NOTE:** Only BMS equipped with heating function can use heating interface

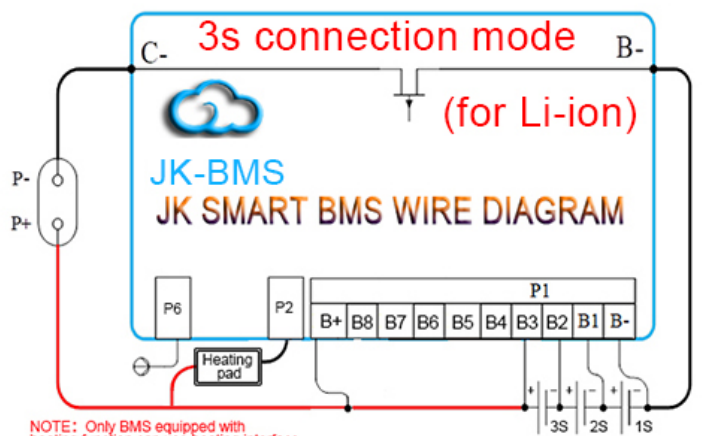
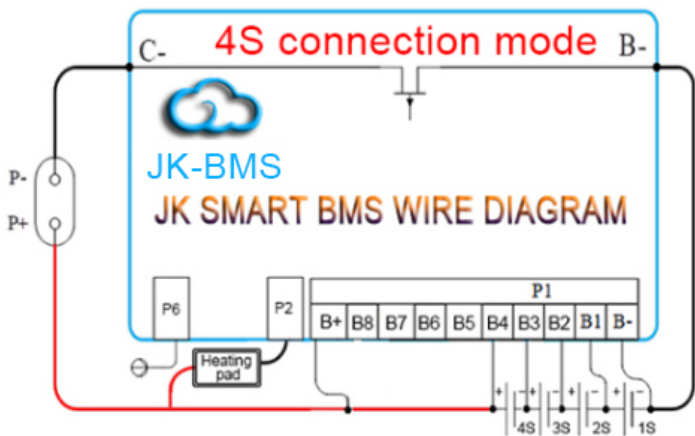
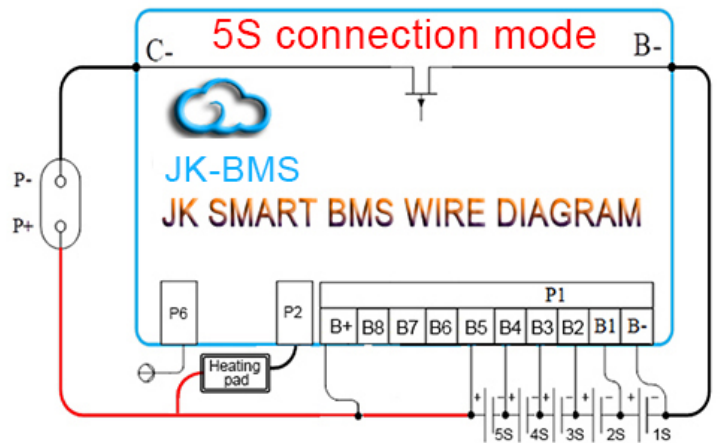
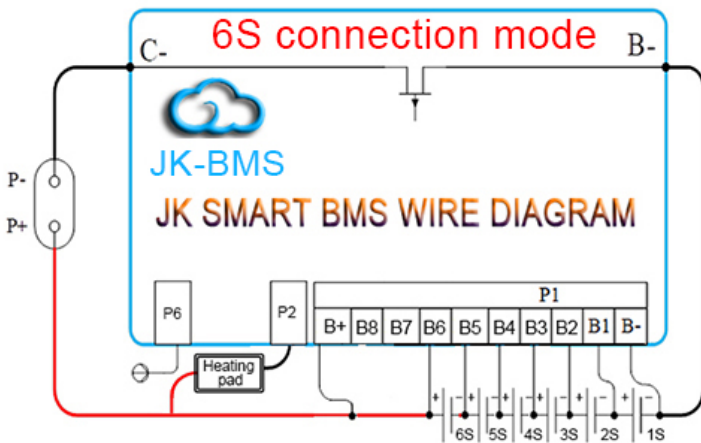
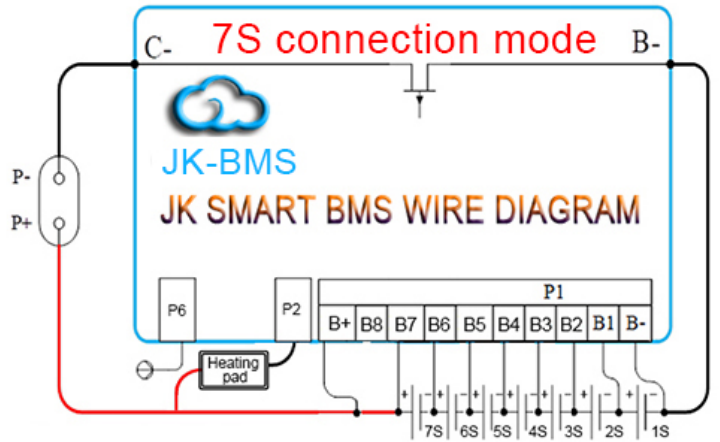
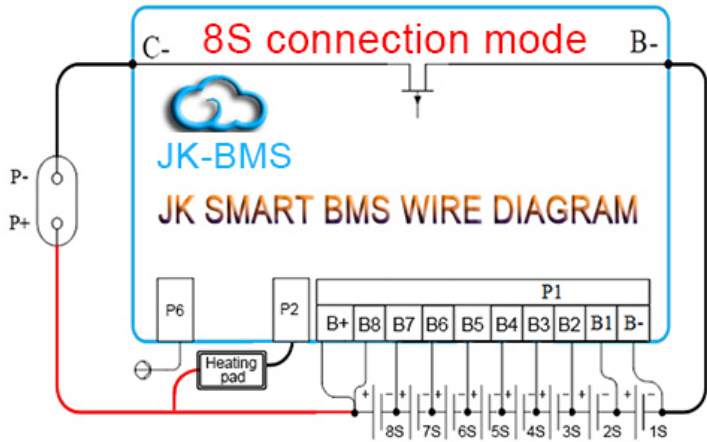


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