

✓ PATENT CERTIFICATE ✓ SOFTWARE COPYRIGHT CERTIFICATE ✓ ISO9001
 ✓ CE ✓ FCC ✓ ROHS ✓ EMC

COMPANY PROFILE

JKBMS ELECTRONIC TECHNOLOGY CO., LTD.

FOCUS ON POWER BMS DEVELOPMENT

JKBMS Electronic Technology Co., Ltd. is a research and development enterprise focusing on BMS management system for power batteries. As the "Leader of Active Battery Balance Technology", JKBMS Electronic Technology Co., Ltd. controls the four core technologies of the world's leading power battery management system: Active Balance, Wireless Communication, Functional Safety, Capacity Management. Kelvin Technology upholds the business concept of "Pursue the ultimate products, help the environmental cause, harvest the beautiful sky", composing a new chapter in the electric vehicle industry to contribute its own strength to the environmental cause!

MAIN PRODUCTS

Smart Active Balance BMS

Smart Active Balancer

Smart Battery capacity repair instrument



AUTHORITATIVE OFFICIAL CERTIFICATION
 TO REASSURE CUSTOMERS
 OFFICIAL CERTIFICATION

COMPANY INTRODUCTION

Business philosophy

Growing with Strugglers

We focus on R&D investment (R&D input is not less than 10% of sales revenue) to keep ahead of technology, become the leader of battery management programs for domestic electric vehicles, and gradually move to the international market

Jkbms values partners

We are willing to join hands with partners with common goals

Create the future and achieve win-win results!

Master the four core technologies
of the world's leading power
battery management system



Active Balance



Wireless transmission



Functional Security



Capacity Management

Catalogue

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ENERGY TRANSFER EQUATION

Active Balance

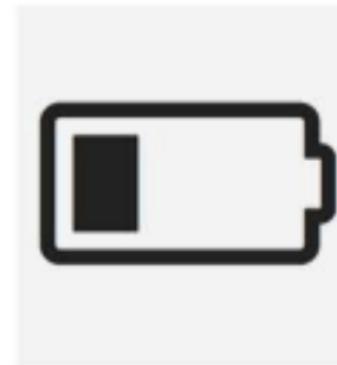
Active measurement, maximum voltage,
minimum voltage, average voltage
Balance between the highest and lowest
voltage strings

MULTIPLE FUNCTIONAL PROTECTION

BEST BMS FOR NATTERY SAFE



OVP



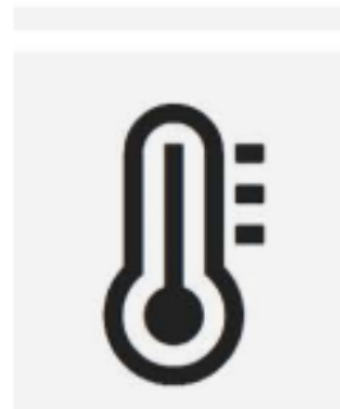
UVP



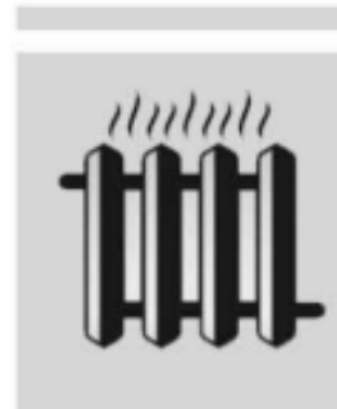
SCP



OCP



NTC



HEATING



SOC



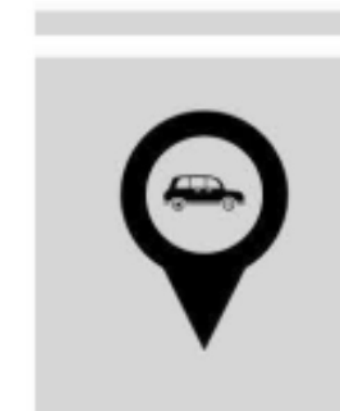
ACTIVE BALANCE



BLUETOOTH



RS485/CANBUS



GPS



SOFTWARE SWITCH

SAMRT ACTIVE BALANCE BMS

Jkbms is a management system tailored for large capacity series lithium battery pack. It has functions such as voltage collection, active balance of large current, overcharge overcurrent overtemperature protection, coulometer, Bluetooth communication, GPS remote, etc. It is suitable for lithium iron phosphate, lithium ternary and other battery types. The protective panel relies on the energy transfer active equalization technology with independent intellectual property rights to achieve a maximum sustained 2A balanced current. The Intelligent Protection Panel for Extreme Empty Lithium Battery is a management system tailored for large capacity series Lithium Battery Pack. It has the functions of voltage collection, active balance of large current, overcharge and overcurrent overtemperature protection, Coulometer, Bluetooth communication, GPS remote and so on. It is suitable for lithium iron phosphate, lithium ternary and other battery types. The protective panel relies on the energy transfer active equalization technology with independent intellectual property rights to achieve a maximum sustained 2A balanced current.

BMS MODEL

JK-BD6A 24S 6P

COMPANY CODE

Balanced current identification, Example:
BD6A represents 0.6A balanced current,
B1A represents 1A balanced current

NUMBER OF
BATTERIES IN SERIES

Continuous charge and discharge
current, behind the number *10,
That is, "6P" represents 60A continuous
current

APPLICATION SCENARIOS



TOURIST BUS



ELECTRIC TRICYCLE



ELECTRIC SCOOTER



UPS



ELECTRIC FORKLIFT



SOLAR
ENERGY STORAGE



RV
ENERGY STORAGE



ELECTRIC
MOTORCYCLE

Electric motorcycle (40A/60A/80A)

ELECTRIC MOTORCYCLE VERSION



PRODUCT FEATURES

- The two-way lossless active balance function improves the battery efficiency by 95%.
- Can be used for lithium ternary(Li-ion), LTO, Lifepo4 ,lithium manganate, lithium cobalt....battery packs
- Protective functions such as over-charging, over-dis-charge, over-current, short circuit, etc.
- Separate battery collection range 1V~5V, accuracy (+) 5mV
- Standardized Bluetooth communication reserved GPS/RS485/CAN communication interface
- size: 110*73*18mm/136*83*17.6mm

APPLICABLE WORKING CONDITIONS

- Operating temperature range: -20°C-70°C
- Power requirements: 20V-100V
- power dissipation:
Balance state: 10mA@100V,
Unbalanced state: 6mA@100V

APPLICATION SCENARIOS



MAIN TECHNICAL INDICATORS

Product Model	JKBMS BD4A 17S4P	JKBMS BD4A 20S4P	JKBMS BD4A 24S4P	JKBMS BD6A 17S6P	JKBMS BD6A 20S6P	JKBMS BD6A 24S6P	JKBMS BD6A 17S8P	JKBMS BD6A 20S8P	JKBMS BD6A 24S8P
Li-ion Strings	7S~17S	7S~20S	7S~24S	7S~17S	7S~20S	7S~24S	7S~17S	7S~20S	7S~24S
Lifepo4 Strings	8S~17S	8S~20S	8S~24S	8S~17S	8S~20S	8S~24S	8S~17S	8S~20S	8S~24S
LTO Strings	12S~17S	12S~20S	12S~24S	12S~17S	12S~20S	12S~24S	12S~17S	12S~20S	12S~24S
Balance mode	Active Balance								
Active Balanced Current	0.4A			0.6A			0.6A		
Main circuit internal resistance	2.8mΩ			1.53mΩ			1.3mΩ		
Continuous discharge current	40A			60A			80A		
Maximum discharge current	60A			100A			150A		
Overcurrent protection (adjustable)	10-40A			10-60A			10-80A		
Other interfaces (Customized)	RS485								
Entry cable	Common Port								
Single Voltage Range	1-5V								
Accuracy of Voltage Acquisition	+5mV								
Overcharge protection voltage	1.2~4.35V Adjustable								
Overcharge Release Voltage	1.2~4.35V Adjustable								
Overcurrent Release Time	2~120S Adjustable								
Over-discharge protection voltage	1.2~4.35V Adjustable								
Over-discharge recovery voltage	1.2~4.35V Adjustable								
Temperature Detection Quantity	Three								
Temperature protection	YES								
Short circuit protection	YES								
Coulometer	YES								
BT Function	Support Android /Apple								
GPS (Optional)	Support GPRS/RS485 interface can only choose one from two								

Electric motorcycle (100A/120A/150A)

ELECTRIC MOTORCYCLE VERSION



PRODUCT FEATURES

- The two-way lossless active balance function improves the battery efficiency by 95%.
- Can be used for lithium ternary(Li-ion), LTO, Lifepo4 ,lithium manganate, lithium cobalt....battery packs
- Protective functions such as over-charging, over-dis-charge, over-current, short circuit, etc.
- Separate battery collection range 1V~5V, accuracy (+) 5mV
- Standardized Bluetooth communication reserved GPS/RS485/CAN communication interface
- size: 110*73*18mm/136*83*17.6mm

APPLICABLE WORKING CONDITIONS

- Operating temperature range: -20℃-70℃
- Power requirements: 20V-100V
- power dissipation:
Balance state: 10mA@100V,
Unbalanced state: 6mA@100V

APPLICATION SCENARIOS



MAIN TECHNICAL INDICATORS

Product Model	JKBMS BD6A 20S10P	JKBMS BD6A 24S10P	JKBMS BD6A 20S12P	JKBMS BD6A 24S12P	JKBMS BD6A 20S15P	JKBMS BD6A 24S15P
Li-ion Strings	7S~20S	7S~24S	7S~20S	7S~24S	7S~20S	7S~24S
Lifepo4 Strings	8S~20S	8S~24S	8S~20S	8S~24S	8S~20S	8S~24S
LTO Strings	12S~20S	12S~24S	12S~20S	12S~24S	12S~20S	12S~24S
Balance mode	Active Balance					
Active Balanced Current	0.6A		0.6A		0.6A	
Main circuit internal resistance	1mΩ		0.65mΩ		0.65mΩ	
Continuous discharge current	100A		120A		150A	
Maximum discharge current	200A		250A		300A	
Overcurrent protection (adjustable)	10-100A		10-120A		10-150A	
Other interfaces (Customized)	RS485					
Entry cable	Common Port					
Single Voltage Range	1-5V					
Accuracy of Voltage Acquisition	+5mV					
Overcharge protection voltage	1.2~4.35V Adjustable					
Overcharge Release Voltage	1.2~4.35V Adjustable					
Overcurrent Release Time	2~120S Adjustable					
Over-discharge protection voltage	1.2~4.35V Adjustable					
Over-discharge recovery voltage	1.2~4.35V Adjustable					
Temperature Detection Quantity	Three					
Temperature protection	YES					
Short circuit protection	YES					
Coulometer	YES					
BT Function	Support Android /Apple					
GPS (Optional)	Support GPRS/RS485 interface can only choose one from two					

Electric motorcycle (150A/2000A)

ELECTRIC MOTORCYCLE VERSION



PRODUCT FEATURES

- The two-way lossless active balance function improves the battery efficiency by 95%.
- Can be used for lithium ternary(Li-ion), LTO, Lifepo4 ,lithium manganate, lithium cobalt....battery packs
- Protective functions such as over-charging, over-discharge, over-current, short circuit, etc.
- Separate battery collection range 1V~5V, accuracy (+) 5mV
- Standardized Bluetooth communication reserved GPS/RS485/CAN communication interface
- size: 110*73*18mm/136*83*17.6mm

APPLICABLE WORKING CONDITIONS

- Operating temperature range: -20°C-70°C
- Power requirements: 20V-100V
- power dissipation:
Balance state: 10mA@100V,
Unbalanced state: 6mA@100V

APPLICATION SCENARIOS



MAIN TECHNICAL INDICATORS

Product Model	JKBMS B1A 20S15P	JKBMS B1A 24S15P	JKBMS B2A 20S15P	JKBMS B2A 24S15P	JKBMS B2A 20S20P	JKBMS B2A 24S20P
Li-ion Strings	7S~20S	7S~24S	7S~20S	7S~24S	7S~20S	7S~24S
Lifepo4 Strings	8S~20S	8S~24S	8S~20S	8S~24S	8S~20S	8S~24S
LTO Strings	12S~20S	12S~24S	12S~20S	12S~24S	12S~20S	12S~24S
Balance mode	Active Balance					
Active Balanced Current	1A		2A		2A	
Main circuit internal resistance	0.65mΩ		0.65mΩ		0.47mΩ	
Continuous discharge current	150A		150A		200A	
Maximum discharge current	300A		300A		350A	
Overcurrent protection (adjustable)	10-150A		10-150A		10-200A	
Other interfaces (Customized)	RS485					
Entry cable	Common Port					
Single Voltage Range	1-5V					
Accuracy of Voltage Acquisition	+5mV					
Overcharge protection voltage	1.2~4.35V Adjustable					
Overcharge Release Voltage	1.2~4.35V Adjustable					
Overcurrent Release Time	2~120S Adjustable					
Over-discharge protection voltage	1.2~4.35V Adjustable					
Over-discharge recovery voltage	1.2~4.35V Adjustable					
Temperature Detection Quantity	Three					
Temperature protection	YES					
Short circuit protection	YES					
Coulometer	YES					
BT Function	Support Android /Apple					
GPS (Optional)	Support GPRS/RS485 interface can only choose one from two					

Electric motorcycle (40A/100A/2000A)

ELECTRIC MOTORCYCLE VERSION



应用场景
APPLICATION SCENARIOS



PRODUCT FEATURES

- The two-way lossless active balance function improves the battery efficiency by 95%.
- Can be used for lithium ternary(Li-ion), LTO, Lifepo4 ,lithium manganate, lithium cobalt....battery packs
- Protective functions such as over-charging, over-discharge, over-current, short circuit, etc.
- Separate battery collection range 1V~5V, accuracy (+) 5mV
- Standardized Bluetooth communication reserved GPS/RS485/CAN communication interface
- size: 110*73*18mm/136*83*17.6mm

APPLICABLE WORKING CONDITIONS

- Operating temperature range: -20℃-70℃
- Power requirements: 20V-100V
- power dissipation:
Balance state: 10mA@100V,
Unbalanced state: 6mA@100V

ENERGY STORAGE IS SPECIAL

Product Model	JKBMS-BD4A8S4P	JKBMS-B1A8S10P	JKBMS-B1A8S20P	JKBMS-B2A8S20P
Li-ion Strings	3S~8S	3S~8S	3S~8S	3S~8S
Lifepo4 Strings	4S~8S	4S~8S	4S~8S	4S~8S
LTO Strings	6S~8S	6S~8S	6S~8S	6S~8S
Balance mode	Active Balance			
Active Balanced Current	0.4A	1A	1A	2A
Main circuit internal resistance	2.8mΩ	0.65mΩ	0.47mΩ	0.47mΩ
Continuous discharge current	40A	100A	200A	200A
Maximum discharge current	60A	200A	350A	350A
Overcurrent protection (adjustable)	10-40A	10-100A	10-200A	10-200A
Other interfaces (Customized)	RS485			
Entry cable	Common Port			
Single Voltage Range	1-5V			
Accuracy of Voltage Acquisition	±5mV			
Overcharge protection voltage	1.2~4.35V Adjustable			
Overcharge Release Voltage	1.2~4.35V Adjustable			
Overcurrent Release Time	2~120S Adjustable			
Over-discharge protection voltage	1.2~4.35V Adjustable			
Over-discharge recovery voltage	1.2~4.35V Adjustable			
Temperature Detection Quantity	Three			
Temperature protection	YES			
Short circuit protection	YES			
Coulometer	YES			
BT Function	Support Android /Apple			
GPS (Optional)	Support GPRS/RS485 interface can only choose one from two			

JK-B2A25S-RP

(RELAY Scheme)



PRODUCT FEATURES

- Suitable for 3s~25S of large capacity lithium cobalt, lithium manganate, Li-ion, Lifepo4,LTO battery packs; Continuous operating current up to 600A
- Applicable to small sightseeing cars, walkers, fork-lifts, shared cars, great work Battery packs for rate storage, base station backup power, solar power, etc.

WORKING CONDITIONS

- Operating Temperature Range: -20 C-70 C
- Power Supply: 30V-100V
- Power consumption: maximum power consumption 1W, power off 0.2mW

APPLICATION SCENARIOS



TECHNICAL INDICATORS

Technical Indicators	Product Model	
	B2A25S-XP	B2A4S-XP (12V Battery)
Li-ion Strings	5S~25S	3S-4S
Lifepo4 Strings	6S~25S	4S
LTO Strings	9S~25S	
Charge and discharge control port	12V(12V Relay)	
Active Balanced Current	2A	
Balance mode	Active Balance	
Entry cable	RELAY SPLIT PORT	
Current Acquisition Interface	SHUNT(500A.75MV) Relay needed to be replaced for larger current	
Overcurrent protection (adjustable)	10A-500A	
Other interfaces (Customized)	RS485/CANBUS/GPS/LCD	
Single Voltage Range	1-5V	
Accuracy of Voltage Acquisition	+5mV	
Overcharge Overdischarge protection voltage	1.2~4.35V Adjustable	
Overcharge Overdischarge Release Voltage	1.2~4.35V Adjustable	
Overcurrent Release Time	2~120S Adjustable	
Temperature Detection Quantity	Three	
Temperature protection	YES	
Coulometer	YES	
BT Function	Support Android /Apple	

LARGE CURRENT (RELAY Scheme)



Product features

- Suitable for 10s~24s of large capacity lithium cobalt, lithium manganate, Li-ion, Lifepo4,LTO battery packs; Continuous operating current up to 600A
- Applicable to small sightseeing cars, walkers, forklifts, shared cars, great work Battery packs for rate storage, base station backup power, solar power, etc.
- Reserved charge/discharge switch control interface (12V), reserved shunt (500A, 75mv)

working conditions

- Operating Temperature Range: -20 C~70 C
- Power Supply: 30V~100V
- Power consumption: maximum power consumption 1W, power off 0.2mW

APPLICATION SCENARIOS



TECHNICAL INDICATORS

Technical Indicators	Product Model			
	B2A25S-XP	B5A25S-XP	B5A4S-XP (12V Battery)	B5A8S-XP (24V Battery)
Li-ion Strings	11S~25S		4S(customization)	7S(customization)
Lifepo4 Strings	12S~25S		4S(customization)	8S(customization)
LTO Strings	20S~25S			
Charge and discharge control port	12V(12V Relay)			24V(24V Relay)
Active Balanced Current	2A	5A		
Balance mode	Active Balance			
Entry cable	RELAY SPLIT PORT			
Current Acquisition Interface	SHUNT(500A.75MV) Relay needed to be replaced for larger current			
Overcurrent protection (adjustable)	10A-500A			
Other interfaces (Customized)	RS485/CANBUS/GPS/LCD			
Single Voltage Range	1-5V			
Accuracy of Voltage Acquisition	+5mV			
Overcharge Overdischarge protection voltage	1.2~4.35V Adjustable			
Overcharge Overdischarge Release Voltage	1.2~4.35V Adjustable			
Overcurrent Release Time	2~120S Adjustable			
Temperature Detection Quantity	Three			
Temperature protection	YES			
Coulometer	YES			
BT Function	Support Android /Apple			

JKBMS Electronic Technology Co., Ltd

JK Active Balancer

0 Loss Mode Equalization

Energy Transfer Active Equalization Board

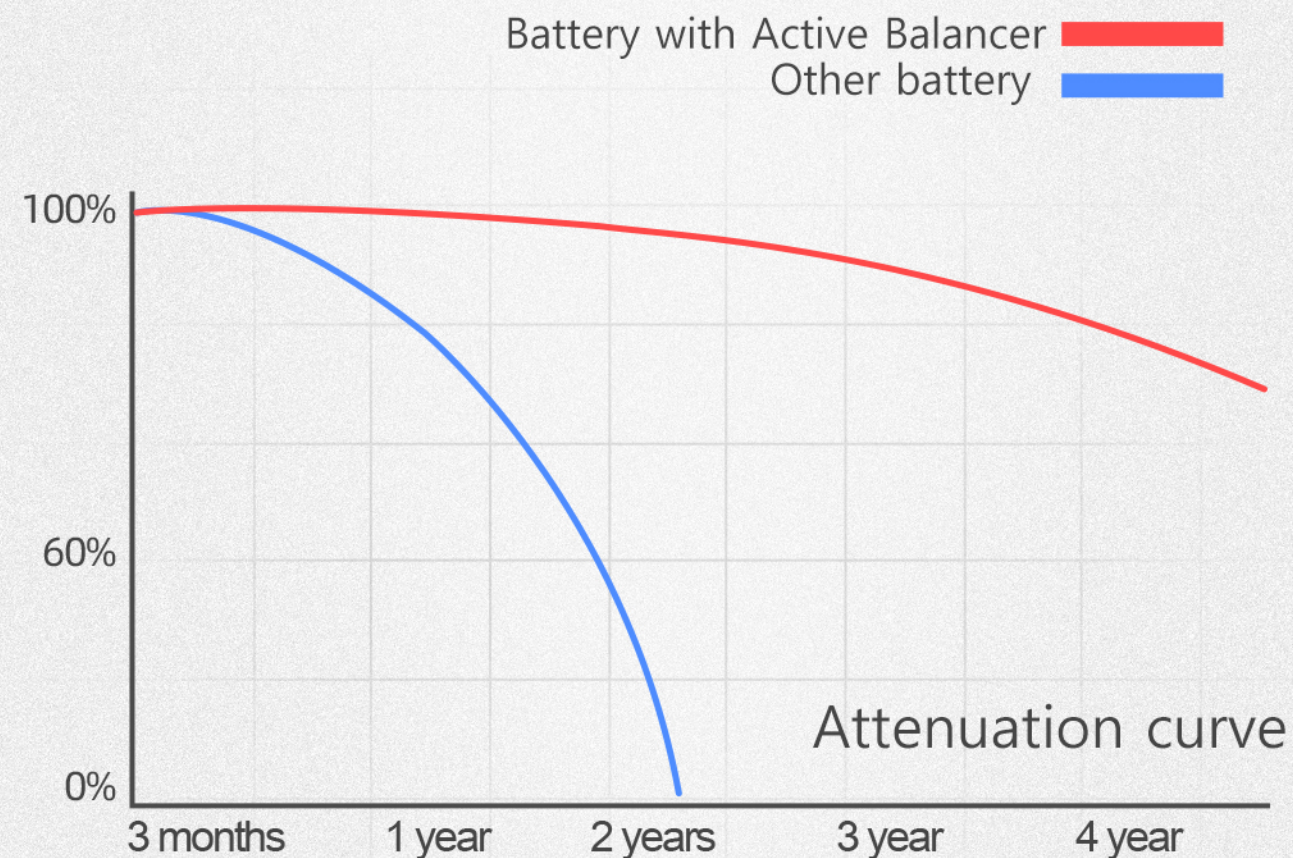
BT	UART	2A	ERR PRO
BLUETOOTH	RS485 CANBUS	0.1A-2A Balance Current	Error Connection Protection



ACTIVE BALANCE * BEST FOR YOUR BATTERY

HOW TO PROTECT YOUR BATTERY BETTER?

FULL-TIME AUTOMATIC DETECTION AND REPAIR OF BATTERY DIFFERENTIAL PRESSURE, EFFECTIVELY EXTENDING BATTERY LIFE



BRIEF INTRODUCTION TO ACTIVE EQUILIBRIUM

The active balancer is a balancing management system tailored for large capacity series battery packs. The balancer uses the supercapacitor as the medium to achieve active energy transfer equalization. The maximum balance current of the balancer is 2A, and the balance current does not depend on the voltage difference of the battery pack.

The active balancer has Bluetooth communication function and is supported by mobile APP software. You can connect the balancer via Bluetooth on your mobile phone to view the battery voltage, balance status, modify parameters, and so on. The balancer is small and easy to install. It can be widely used in the battery PACK of small sightseeing cars, walkers, shared cars, high-power storage, base station backup power, solar power stations and other products. It can also be used in battery balanced maintenance, repair and other occasions.

MODEL ESTABLISHMENT

JK-DZ08 B1A 24S



APPLICABLE PEOPLE



LITHIUM BATTERY USERS

- ◆ The battery is powered off when used
- ◆ Always feeling that the battery is not fully charged
- ◆ Battery life after a period of use Not as good as before



REPAIR PERSONNEL

- ◆ Maintenance requires disassembling, sorting, and reassembling the entire set of batteries, which is too cumbersome and time-consuming
- ◆ Disassembling the electrical core for capacitance separation requires more expensive and time-consuming equipment
- ◆ Using commercially available balance charging and repair Didn't use it a few times, and it didn't work anymore



BATTERY PACK FACTORY

- ◆ Too many after-sales batteries, traditional maintenance Method time can't afford to wait
- ◆ Too many after-sales batteries, and the labor cost of traditional maintenance methods is too high
- ◆ Traditional maintenance methods, repair accuracy Not high, poor customer

ACTIVE BALANCER

(STANDARD EDITION)



PRODUCT FEATURES

- NON ENERGY CONSUMPTION ENERGY TRANSFER ACTIVE BALANCING TECHNOLOGY.
 - AUTOMATIC EQUALIZATION WHEN THE PRESSURE DIFFERENCE EXCEEDS THE TRIGGER VALUE (DEFAULT>4MV, SETTABLE)
 - WITH ANTI BACKCONNECT PROTECTION FUNCTION, BATTERIES ABOVE 24S CAN SUPPORT BALANCED CASCADE SINGLE BATTERY ACQUISITION RANGE: 1V~5V, ACCURACY: ± 5MV
 - STANDARD BLUETOOTH COMMUNICATION, SUPPORTING REAL-TIME VIEWING OF BATTERY STATUS BY ANDROID AND IOS
- OUTLINE DIMENSION: 153MM * 136MM * 17.6MM

APPLICABLE WORKING CONDITIONS

- OPERATING TEMPERATURE RANGE: - 20 °C - 70 °C
- POWER REQUIREMENTS: 40V-100V, BATTERY PACK SELF POWERED OR EXTERNAL POWER SUPPLY
- POWER CONSUMPTION: BALANCED STATE 10MA@100V , UNBALANCED STATE 6MA@100V

APPLICATION SCENARIOS



Lifepo4 BATTERY



Li-ion BATTERY



LTO BATTERY

TECHNICAL INDICATORS

Product Model	B2A4S	B1A16S	B2A16S	B1A24S	B2A24S	DZ08-B1A24S	DZ11-B1A24S	DZ08-B2A24S	DZ11-B2A4S
Active Balance Current	0.1A-2A ADJ	0.1A~1A ADJ	0.1-2A ADJ	0.1A-1A ADJ	0.1A~2A ADJ	0.1A~1A ADJ		0.1A~2A ADJ	
Adapt Battery Strings	4S	2S~16S		2S~24S					
Balance Cascading	NOT SUPPORT			More than 24 battery packs can theoretically be cascaded indefinitely					
communication interface	NOT SUPPORT					CANBUS	RS485	CANBUS	RS485
Power Range	20V-100V								
Power Supply	Battery pack self-powered or external powered								
Balance mode	Non-energy consumption Energy Transfer Active Balance Technology								
Balance Opening Conditions	Pressure difference exceeds trigger value (default > 4mv, set) Auto Start Balance								
Single Voltage Collection	Acquisition range 1V~5V, Accuracy +5mv								
Adapt Battery type	li-ion , Lifepo4 Battery by default LTO battery needs Customization								
Communication function	Bluetooth Support Android/IOS								
Work Temp	-30℃~90℃								
Self-consuming power	Balance state: 10mA@100V , Unbalance state: 6mA@ 100V								
Size	157.6mm*99mm*18.5mm								

Long-lasting battery pack Can cause problems



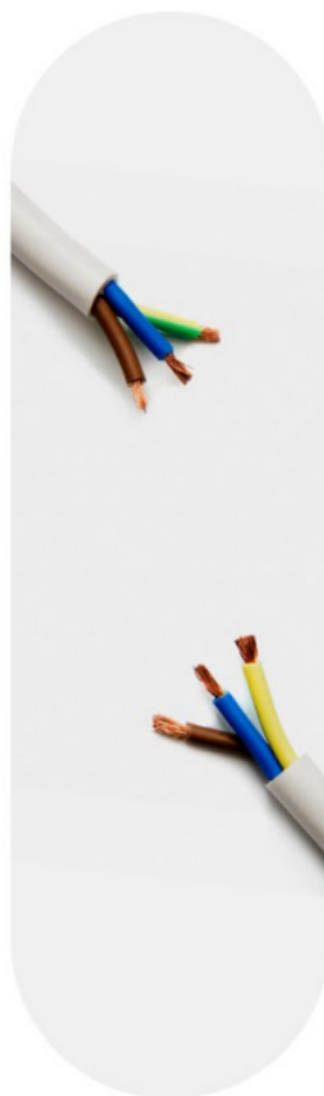
Duration reduction



Decrease in lifetime



Not fully charged



Battery power off

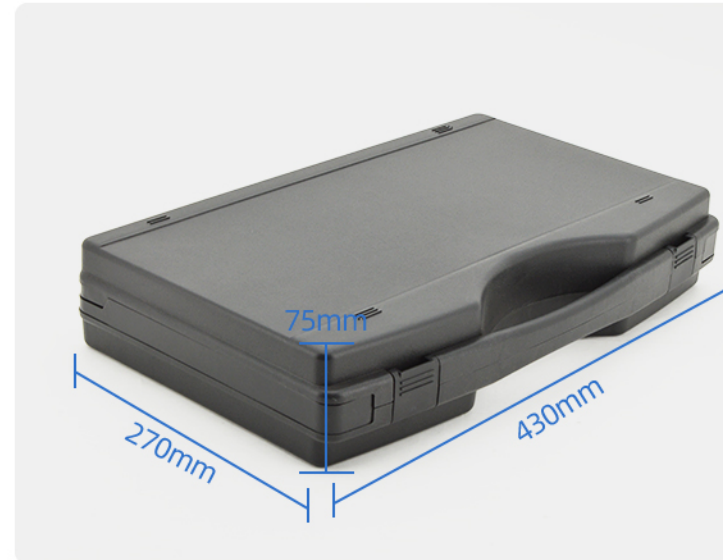
JK Smart Active Balancer

Lithium Battery Differential Pressure Repair Instrument

All troubles solved together



5A Smart Active Balancer



Main Technical Indicators

- ◆ Supports 4S-24S battery packs.
- ◆ Real-time active energy transfer balancing, when the balance is reached, the pressure difference between single batteries is less than 5 mV;
- ◆ The voltage range of the monomer is 1V~5V, and the precision is +5mV.
- ◆ Supports all battery types such as li-ion, lead acid, Lifepo4, supercapacitor, etc.
- ◆ The balanced current is set independently in the range of 0.8A to 5A, independent of the cell pressure difference.
- ◆ Supports balanced cascade for more than 24 battery packs, which can theoretically be cascaded indefinitely.
- ◆ Bluetooth communication, with mobile APP, support Android and IOS, real-time view of the status of the battery.
- ◆ Balanced line resistance detection, early detection of wiring errors.
- ◆ Operating temperature range: -20 C to 70 C.
- ◆ Power requirements: 12V~100V, self-powered by batteries.
- ◆ Power consumption: balanced state 10mA@100V ;Unbalanced state 6mA@100V .

10A Smart Active Balancer



Main Technical Indicators

- ◆ Supports 12S-24S battery packs.
- ◆ Real-time active energy transfer balancing, when the balance is reached, the pressure difference between single batteries is less than 5 mV;
- ◆ The voltage range of the monomer is 1V~5V, and the precision is +5mV.
- ◆ Supports all battery types such as li-ion, lead acid, Lifepo4, supercapacitor, etc.
- ◆ The balanced current is set independently in the range of 0.8A to 10A, independent of the cell pressure difference.
- ◆ Supports balanced cascade for more than 24 battery packs, which can theoretically be cascaded indefinitely.
- ◆ Bluetooth communication, with mobile APP, support Android and IOS, real-time view of the status of the battery.
- ◆ Balanced line resistance detection, early detection of wiring errors.
- ◆ Operating temperature range: -20 C to 70 C.
- ◆ Power requirements: 40V~100V, self-powered by batteries.
- ◆ Power consumption: balanced state 10mA@100V ;Unbalanced state 6mA@100V .

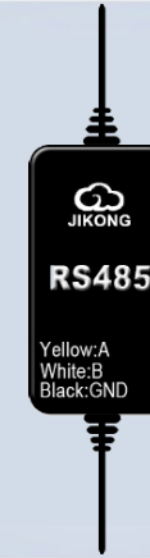


With Active Switch
Size:60*35*10mm

2.5inch
Power Board



4.5inch
LCD



RS485 Module



Switch



4G GPS Module
Portable



4G GPS Module
Built-in



Adapter
PH2.54~PH2.0