

# ENERGY STORAGE LITHIUM BATTERY SOLUTION



# COMPANY PROFILE



BAK New Power Technology Co.,Ltd. is a subsidiary of BAK Battery Group. Established in 2019, BAK New Power is a high quality lithium battery provider. We mainly produce residential energy storage batteries, commercial and industrial energy storage batteries and energy storage systems.

On the other hand, we have produced a lot of high quality lithium batteries for electric bikes, motorcycles, tricycles and low speed electric vehicles. Moreover, we provide customized battery energy solutions for different appliances with our professional engineer team.

With high speed development these years and strong support from BAK Battery Group, BAK New Power has become a leading provider of lithium batteries. Cutting-edge automatic production line, high quality battery materials, professional research and development team, skilled workers, all these key elements help us to obtain praise and recognition from customers. BAK New Power will build a sustainable future together with you!



## Our Results

**30**

GWh/per year

BAK battery total production capacity

**5**

Top

Annual power battery installation capacity ranking

**2**

NO.

NCM power battery installed capacity ranking

**2**

NO.

Power Battery Installed Capacity Ranking

## Our Story



Energy storage battery factory is under construction in Huizhou city, Guangdong Province



Anhui BAK New Power was registered successfully. In the June, it went into operation.



Zhengzhou BAK New Power was registered successfully. In the next February, the first dealer was signed.



Installed capacity of BAK cylindrical battery ranked No. 1 in China. Accumulated installed capacity was more than 170,000 units.

2022



In Taipei Int'l Flora Expo, the Luxgen equipped with BAK battery became the first batch of new energy passenger car in China.

2021



Zhengzhou BAK established and operated in the next year.

2019



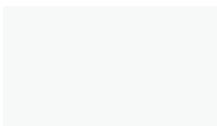
BAK assisted to launch Trailblazer 1 satellite. BAK set foot in energy storage business. Power battery pack broke through 10,000 sets in one year. 2.75Ah power battery started to mass production.

2018



Productivity of power battery reached to 2.9 GWh with leading development of NMC market in China. Quantity of new energy vehicle equipped with BAK battery was more than 50,000 units with Rank 1 in China

2010



Authorized by Dell and HP

2013



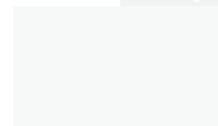
Build the first 18650 automatic production line in China.

2015



The first manufacturer realized industrialization of LFP power battery in the world, cooperated with A123, U.S.

2016



BAK established

2009

2006

2005

2001





We offer cylindrical cells like 18650, 26650, 21700, 26700 and 32140, with diversified capacity levels and discharge rates, applicable for power tool, E-mobility, consumer electronics, medical and ESS products etc.

## NCM Cylindrical Cell

Model	N18650CNP	N18650CH	N18650CL-29	N18650CP	N21700CGP	N21700CG-50	
Nominal Capacity(mAh)	2500	2600	2900	3350	4000	5000	
Nominal Voltage(V)	3.6	3.6	3.6	3.6	3.6	3.6	
Dimension(mm)	Height: ≤ 65.1 Diameter: ≤ 18.55	Height: ≤ 65.1 Diameter: ≤ 18.55	Height: 64.85±0.25 Diameter: 18.35±0.15	Height: ≤ 65.1 Diameter: ≤ 18.55	Height: ≤ 70.3 Diameter: ≤ 21.3	Height: ≤ 70.75 Diameter: ≤ 21.4	
Weight(g)	≤ 48g	≤ 47g	≤ 48g	≤ 49g	≤ 70g	≤ 70g	
Internal Resistance(mΩ) (AC Impedance, 1000 Hz)	≤ 16 mΩ	≤ 30 mΩ	≤ 35 mΩ	≤ 35 mΩ	≤ 12 mΩ	≤ 30 mΩ	
Charge	Standard	0.5C					
	Max. (25 C ,not for cycle life )	4A	1C	1C	1C	6A	1C
	End Voltage(V)	4.2V (Cycles are not guaranteed when > 4.2V)					
Discharge	Standard	0.2C					
	Max. (25 C ,not for cycle life )	30A	3C	3C	3C	40A	3C
	End Voltage(V)	2.5	2.75	2.5	2.5	2.5	2.5
Temperature	Charge	0~50 C	0~45 C	0~45 C	0~45 C	0~50 C	0~45 C
	Discharge	-20~75 C	-20~60 C	-20~60 C	-20~60 C	-20~75 C	-20~60 C
Cycle Life(Cell specifications stipulate room temperature)	≥300 cycles (4A_CHG/20A_DSG) 60% SOH	≥1000 cycles (0.5C_CHG/1C_DSG) 80% SOH	≥1000 cycles (0.5C_CHG/1C_DSG) 80% SOH	≥800 cycles (0.5C_CHG/1C_DSG/2.75V) 80% SOH	≥250 cycles (6A_CHG/35A_DSG) 60% SOH	≥800 cycles (0.5C_CHG/1C_DSG/2.75V) 80% SOH	

## LiFePO4 Cylindrical Cell

Model	26650PFS	26650FS3	26700FB2	32140FB	32140FS	
Nominal Capacity(mAh)	3000	3600	4500	12800	15000	
Nominal Voltage(V)	3.2	3.2	3.2	3.2	3.2	
Dimension(mm)	Height: 65.3±0.2 Diameter: 26.2±0.3	Height: 65.3±0.2 Diameter: 26.2±0.3	Height: 70.3±0.2 Diameter: 26.2±0.3	Height: 140±0.3 Diameter: 33.2±0.2	Height: 140±0.3 Diameter: 33.2±0.2	
Weight(g)	88±3.0g	85±3.0g	90±3.0g	280±10.0g	295±10.0g	
Internal Resistance(mΩ) (AC Impedance, 1000 Hz)	≤ 10 mΩ	≤ 20 mΩ	≤ 20 mΩ	1.0~3.0 mΩ	1.0~3.0 mΩ	
Charge	Standard	1C	0.5C			
	Max. (25 C ,not for cycle life )	3C	1.5C	1C	1C	1C
	End Voltage(V)	3.6V (Cycles are not guaranteed when > 3.6V)				3.65V (Cycles are not guaranteed when > 3.65V)
Discharge	Standard	0.5C				
	Max. (25 C ,not for cycle life )	10C/20C(SOC≥50%,5S)	3C	3C	2C/6C(10S)	2C/6C(10S)
	End Voltage(V)	2.0	2.0	2.0	2.5(T>0 C) 2.0(T≤0 C)	2.0
Temperature	Charge	0~50 C	0~50 C	0~55 C	-10~60 C	-10~60 C
	Discharge	-20~60 C	-20~60 C	-20~60 C	-30~60 C	-30~60 C
Cycle Life(Cell specifications stipulate room temperature)	≥1500 cycles (1C_CHG/3C_DSG) 80% SOH	≥3000 cycles (0.5C_CHG/0.5C_DSG) 80% SOH	≥1500 cycles (0.5C_CHG/0.5C_DSG) 80% SOH	≥2000 cycles (0.5C_CHG/0.5C_DSG) 80% SOH	≥2500 cycles (0.5C_CHG/0.5C_DSG) 80% SOH	



Featuring high energy density, our prismatic and pouch batteries are mainly used on medical products, EV and ESS etc.

## Sodium-ion Cylindrical Cell

Model		32140NS
Nominal Capacity(Ah)		10
Nominal Voltage(V)		3.0
Dimension(mm)		Height: 140±0.3 mm Diameter: 33.2±0.2 mm
Weight(g)		267±10g
Internal Resistance(mΩ) (AC Impedance, 1000 Hz)		1.0 mΩ ≤ IR ≤ 4.0 mΩ
Charge	Standard	0.5C CC/CV, cut off 3.95V/0.05C
	Max. (25 °C ,not for cycle life )	2C
	End Voltage(V)	3.95V
Discharge	Standard	0.5C
	Max. (25 °C ,not for cycle life )	3C continuous, 10C for 10 seconds
	End Voltage(V)	1.5V (T>0 °C) /1.2V(T ≤ 0 °C)
Temperature	Charge	-10~65 °C
	Discharge	-40~65 °C
Cycle Life	25±2 C	≥2000 cycles (0.5C/0.5C, 80% SOH)

## LiFePO4 Prismatic Cell

Model		BAKCBK100	BAKCCBL150
Nominal Capacity(Ah)		100	150
Nominal Voltage(V)		3.2	3.2
Dimension(mm)(L*T*H)		(220.4±0.4)*(40.5±0.5)*(117.5±0.4)	(220.4±0.4)*(60.5±0.5)*(117.5±0.4)
Weight(g)		2080±100	3050±100
Internal Resistance(mΩ) (AC Impedance, 1000 Hz)		≤0.6mΩ	≤0.6mΩ
Charge	Standard	0.5C	
	Max. (25 °C ,not for cycle life )	150A(Continuous) / 300A(50%SOC,10s)	225A(Continuous) / 400A(50%SOC,10s)
	End Voltage(V)	3.65V (Cycles are not guaranteed when > 3.65V)	
Discharge	Standard	0.5C	
	Max. (25 °C ,not for cycle life )	200A(Continuous) / 300A(50%SOC,10s)	300A(Continuous) / 400A(50%SOC,10s)
	End Voltage(V)	2.5V (>0 °C), 2.0V(≤0 °C)	
Temperature	Charge	0 ~ 55 °C	
	Discharge	-20 ~ 60 °C	
Cycle Life(with clamp,200-300kgf at room temperature)		≥6000 cycles (0.5C CHG/0.5C DSG) 80% SOH	

# Battery Module



51.2V 100Ah rack battery module is with high energy density and high quality.

It can be used to support various equipment and systems, including residential ESS, telecom base, commercial energy, UPS, etc.

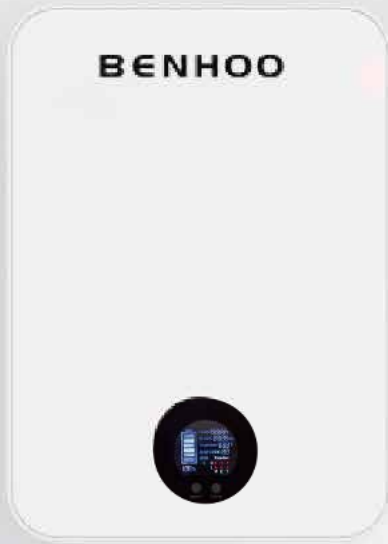
- Long cycle life energy storage battery (6000+ times)
- 19-inch 3U size, support wall-mounted & stacked installation
- Automatic production line, with stable and reliable quality
- Intelligent BMS
- Support Max. 75 pcs in parallel

Compatible with most of the well-known inverters on the market



## Product Parameters

Model	BNP-5120BM
Battery material	LiFePO4
Nominal Capacity(Ah)	100Ah
Nominal Voltage(V)	51.2V dc
Nominal Energy(Wh)	5120 Wh
Charge Voltage(V)	57.6V dc
Discharge Voltage(V)	44.8V dc~57.6V dc
Standard Charge Current (A)	20A
Max. Charge Current(A)	50A
Max. Charge power(W)	2560W
Standard Discharge Current(A)	50A
Standard Discharge power(W)	2560W
Max. Discharge Current(A)	100A
Max. Discharge power(W)	5120W
Communication	RS485, CAN
Working Temperature	0~50℃ (Charge) -20~60℃ (Discharge)
Storage Temperature	The recommended storage temperature is 20~30℃, battery life would be reduced if battery is stored in high temperature. If it's stored for a long time, charge and discharge the battery once every 6 months and keep 30%-40% SOC.
Relative humidity	5~90% RH
Max. Operating Altitude	<2000m
Enclosure Protection Rating	IP20
Weight	50KG
Dimension	585*438*132mm(L*W*H) / 525*438*132mm(L*W*H)
Design life	10 years
Cycle Life	6000 + Cycles@80% DOD/25℃/0.5C,70% EOL
Certification	UN38.3, IEC 62619:2017, CE, FCC, RoHS,REACH



# Wall-mounted ESS



5120Wh Wall-mounted solar energy battery is with elegant and stylish design, can be used for home solar energy storage system.

- Long cycle life energy storage battery (6000 + times)
- Wall-mounted simple installation, save space and cost
- Automatic production line, with stable and reliable quality
- Intelligent BMS
- Support Max. 75 pcs in parallel



Compatible with most of the well-known inverters on the market





## Product Parameters

Model	BNP-5120BW
Battery material	LiFePO4
Nominal Capacity(Ah)	100Ah
Nominal Voltage(V)	51.2V dc
Nominal Energy(Wh)	5120Wh
Charge Voltage(V)	57.6V dc
Discharge Voltage(V)	44.8V dc~57.6V dc
Standard Charge Current (A)	20A
Max. Charge Current(A)	50A
Max. Charge power(W)	2560W
Standard Discharge Current(A)	50A
Standard Discharge power(W)	2560W
Max. Discharge Current(A)	100A
Max. Discharge power(W)	5120W
Communication	RS485, CAN
Working Temperature	0~50 ℃ (Charge) -20~60 ℃ (Discharge)
Storage Temperature	The recommended storage temperature is 20~30℃, battery life would be reduced if battery is stored in high temperature. If it's stored for a long time, charge and discharge the battery once every 6 months and keep 30%-40% SOC.
Relative humidity	5~90% RH
Max. Operating Altitude	< 2000m
Enclosure Protection Rating	IP65
Weight	About 65KG
Dimension	730*535*176mm(H*W*D) / 620*455*145mm(H*W*D)
Design life	10 years
Cycle Life	6000 + Cycles@80% DOD/25℃/0.5C,70% EOL
Certification	UN38.3, IEC 62619:2017, CE, FCC, RoHS, REACH

# LV 5KWh-20KWh ESS



BAK LiFePO4 stacked ESS is with modular design, elegant and stylish appearance, fit for household energy backup. It has a perfect battery protection system, and support customization. It is compatible with inverters of different brands.

- Long cycle life energy storage battery (6000 + times)
- Stacked installation is simple, saving space and cost
- Automatic production line, with stable and reliable quality
- Intelligent BMS
- Support MAX. 10 systems in parallel



Compatible with most of the well-known inverters on the market



## Product Parameters

Model	BNP_51.2V100Ah	BNP_51.2V200Ah	BNP_51.2V300Ah	BNP_51.2V400Ah
Battery Type	LiFePO4			
Battery Modular QTY(PCS)	51.2V100Ah*1	51.2V100Ah*2	51.2V100Ah*3	51.2V100Ah*4
Nominal Energy (KWh)	5.12KWh	10.24KWh	15.36KWh	20.48KWh
Nominal Voltage (V)	51.2V			
Charge Voltage(V)	57.6V			
Discharge voltage range(V)	44.8~57.6Vdc			
Standard Charge Current(A)	20A	40A	60A	80A
Max.Charge Current(A)	50A	100A	150A	200A
Max.Charge power(KW)	2.5KW	5KW	7.5KW	10KW
Standard Discharge Current(A)	50A	100A	150A	200A
Max. Discharge Current(A)	100A	200A	300A	300A
Max. Discharge power(KW)	5KW	10KW	15KW	15KW
Communication	RS485, CAN			
Working Temperature	0~50 C (Charge)-20~60 C (Discharge)			
Storage Temperature	0 C ~35 C			
Humidity	5~90%RH (no condensation)			
Max. Operating Altitude	<2000m			
Enclosure Protection Rating	IP20			
About weight	105Kg	173Kg	241Kg	309Kg
Dimension	820*540*496mm (L*W*H)	820*540*652mm (L*W*H)	820*540*808mm (L*W*H)	820*540*964mm (L*W*H)
Cycle Life	6000+ Cycles@80% DOD/25 C/0.5C,70% EOL			
Design life	10 years			
Certification	UN38.3, IEC 62619, CE, FCC, RoHS, REACH			
Customizable according to customer needs				

# All-In-One ESS



This is an ALL-In-One solution which makes single-phase on-grid&off-grid intergrated inverter and low voltage ESS within a system.It provides users with a simple,easy-to-use storage solution for their energy, only minimun installation is required.

- **Inverter:** Built-in single phase on-grid&off-grid integrated inverter options.
- **Extensibility:** Module design, extensible storage 5.12KWH or 10.24KWH.
- **Installation:** Floor-standing, plug and play, less commission.
- **Waterproof:** IP20 indoor available
- **Communication:** CAN/RS485/DRM, Wifi/LAN optional, remote monitoring
- **Warranty:** 5 years product warranty, 10 years design life.



## Inverter Features

- **Safe & Reliable**

The inverter has support IEC/EN62109-1/-2, IEC/EN62477-1, South Africa NRS097-2-1:2017, IEC/EN 61000-6-1, IEC/EN 61000-6-3 test certification

- **Economical & Practical:**

Support intelligent EMS management function;

Support on/off-grid automatic switching function to ensure uninterrupted power when important loads are off-grid



## Product Parameters

Model		BNP-LV-AIO-5KW 5KWh	BNP-LV-AIO-5KW 10KWh
PV Input	Max. Recommended DC Power[W]	7000	7000
	Max. DC Voltage[V]	550	550
	MPPT Voltage Range[V]	125-500	125-500
	Max. Input Current of single MPPT[A]	14	14
	No. of MPP Trackers	2	2
	Strings Per MPP Tracker	1	1
AC Output	Nominal AC Power[VA]	5000	5000
	Rated Grid Voltage(Range)[V]	230 (176 to 270)	230 (176 to 270)
	Rated Grid Frequency[Hz]	50/60	50/60
	Max.AC Current[A]	21.7	21.7
	Displacement power factor	0.99 leading~0.99 lagging	0.99 leading~0.99 lagging
	Total Harmonic Distortion(THDI)	< 2%	< 2%
	AC Output topology	L+N+PE	L+N+PE
AC Input	Nominal AC Power[VA]	5000	5000
	Rated Grid Voltage(Range)[V]	230 (176 to 270)	230 (176 to 270)
	Rated Grid Frequency[Hz]	50/60	50/60
	Norminal AC Current[A]	21.7	21.7
	Max.AC Current[A]	21.7	21.7
	Displacement Power Factor	0.99 Leading~0.99 Lagging	0.99 Leading~0.99 Lagging
	AC Inrush Current	35	35
EPS Output	EPS Rated Power[VA]	5000	5000
	Max. EPS Power[VA]	5000	5000
	EPS Rated Voltage, Frequency	230VAC, 50/60Hz	230VAC, 50/60Hz
	EPS Rated Current[A]	21.7	21.7
	Switch Time[ms]	<500	<500
	Total Harmonic Distortion(THDv)	<2%	<2%
	Parallel Operation	Yes	Yes
	Compatible With the Generator	Yes(signal provided only)	Yes(signal provided only)
Battery Parameter	Battery Type	Lithium Battery	Lithium Battery
	Battery Voltage Range[V]	44-58	44-58
	Recommended Battery Voltage[V]	51.2	51.2
	Cut Off Voltage[V]	44.8	44.8
	Max. Charging Voltag[V]	58	58
	Max. Protective Voltage[V]	59	59
	Max. Charge/Discharge Current[A]	95/110	95/110
	Peak Charge/Discharge Current[A]	95/110	95/110
	Nominal Energy(Kwh)	5.12	10.24
	Communication Interfaces	CAN/RS485	CAN/RS485
	Lightning protection design	Yes	Yes
Efficiency	MPPT Efficiency	99.90%	99.90%
	Euro Efficiency	97%	97%
	DC Max. Efficiency	97.60%	97.60%
	Max. Battery Charge/discharge Efficiency	95%	95%
Other	Dimension(L*W*H)[mm]	580*350*1512	580*350*1512
	Weight[KG]	125	175
	Enclosure Protection Rating	IP20	IP20
	Working Temperature	0~50 °C (Charge), -20~60 °C (Discharge)	
	Storage Temperature	0 °C ~35 °C	
	Storage humidity	5~90%RH (no condensation)	
	Max. Operating Altitude	<2000m	
	Cycle Life	6000+ Cycles @80% DOD/25 °C/0.5C,70% EOL	
	Design life	10+ years	
Battery Certification	UN38.3, IEC 62619, CE, FCC,RoHS		



# LiFePO4 Deep Cycle Battery

## Product Advantage

- **Component:** Best A-grade cells, Intelligent built-in BMS
- **Module:** 7Ah to 300Ah, with 12V/24V variants
- **Extensibility:** 4 pcs in series or 4 pcs in parallel
- **Cycle life:** 6000 + times 80% DOD, 70 EOL
- **Size:** Drop-in replacing for lead acid battery
- **Waterproof:** IP65~IP68 available
- **Reliability:** Internal heating subzero available( optional )
- **Communication:** Bluetooth, Real-time APP monitoring( optional )
- **Warranty:** 5 years product warranty, 10 years design life
- **Certificates:** UL1642, CE, IEC62619, UL1973, UN38.3, MSDS

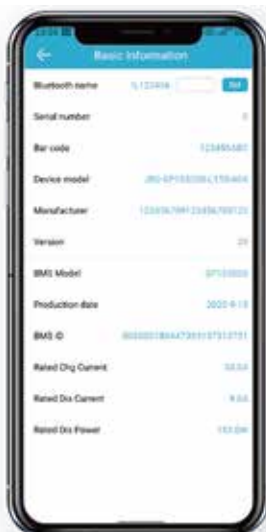


## Application



## Product Parameters

Model	SPF12-100	SPF12-200	SPF26V-100
Battery Type	LiFePO4	LiFePO4	LiFePO4
Battery Capacity	100Ah/1280Wh	200Ah/2560Wh	100Ah/2560Wh
Nominal Voltage	12.8V	12.8V	25.6V
Standard Charging Current	20A	50A	50A
Standard Discharging Current	50A	50A	50A
Max Continuous Charging Current	100A	200A	100A
Max Continuous Discharging Current	100A	200A	200A
Charging Voltage (V)	14.4V	14.4V	28.8V
Battery Cycle	>6000	>6000	>6000
Housing material	Plastic	Plastic	Plastic
Product Size( L*W*H )	330*172*216mm	522*239*218mm	522*239*218mm
Net Weight	11KG	22KG	22KG
Operating Temperature	Charge:0℃~45℃ Discharge:-20℃~60℃	Charge:0℃~45℃ Discharge:-20℃~60℃	Charge:0℃~45℃ Discharge:-20℃~60℃
Bluetooth function	Optional		
Customizable according to customer needs			





# Portable Power Station



BNP power supply series most versatile sized power station is big enough to power medium to large appliances and portable enough to pack in the car and go with you anywhere.

Upgraded to include bidirectional inverting system, increased solar charging efficiency, and faster recharge times. It can power phones, laptops, camera equipment, portable fridges, medical devices, TV's, and more. It is safe, clean, portable power for camping, tailgating, off-grid events, workshops, and emergency power during an outage.



- Applicable for Outdoor working/ RV camping / Emergency power/ Home backup power
- LiFePO4 battery, high safety
- AC/ DC function, multiple output ports
- Fast charging, UPS function



## Product Parameters

	Model	BNP1500
Basic information	Capacity	1536Wh
	Output power	1500W
	Surge power	1800W
Input	AC	800W
	Anderson( DC)	400W
	DC 6330	400W
Output	AC	2*220V50Hz or 110V60Hz Pure sine wave
	Cigarette lighter	1*24V10A
	Cigarette lighter	1*12V 10A
	DC5521	2* 12V 5A
	USB-A	1*12W
	USB-QC3.0	1*18W
	Type-C	1*PD 100W(Special cables)
	LED	1*9W
	Wireless charging	Optional
Other Specifications	Switches	Power switch
		AC output switch
		DC input switch
		LED switch
	Bluetooth APP	Optional
	UPS Function	Yes
LED display	Indicator icons, power percentage, charging and discharging power, time and status, etc.	
Package	Portable power station, AC cable, manual and warranty card, car charging cable(optional), solar charging cable (optional) .	
Product Size (L*W*H)	380*230*288mm	
Net Weight	18KG	



# Mobile All-in-one ESS

## Product Overview

This solar storage system is an integrated product suitable for households. It has enough energy to support the power supply of household equipment in the event of a power outage, and can be charged through solar energy and the grid. With high quality LiFePO4 batteries, hybrid inverter and MPPT, it supports off grid and on grid working modes. Equipped with uninterrupted power supply function, it is a wonderful solution for you!

It is more cost-effective and easy to move equipped with sturdy and durable wheels.



## Product specifications and parameters

	Model	BNP-WAIO-5KW 5KWh	BNP-WAIO-8KW 10KWh
Grid Mode	Nominal AC Power[VA]	230Vac	
	Rated frequency	60Hz	
	Efficiency	0.95	
	Transaction time	10ms(UPS); 20ms(electric appliances)	
Inverter Mode	Rated output	5KVA	5KVA
	Output voltage and frequency	230Vac±5% 50Hz	
	Peak efficiency	0.94	
	Rated DC inout voltage	48Vdc	
Battery Parameter	Battery Type	LFP	
	Rated voltage	51.2V	51.2V
	Capacity	100Ah	200Ah
	Energy	5120Wh	10240Wh
	Max. Charging current	100A	200A
	Max. Discharging current	100A	200A
	Cycle life	6000 times 80%DOD	
Charging Mode	Charging mode	3-stage formula	
	Max AC charging current	60Amp (@VI/P=230Vac	80Amp (@VI/P=230Vac
	Floating charging voltage	54Vdc	54Vdc
MPPT Solar Charging Mode	Max solar charging power	6000W	12000W
	Solar MPPT voltage range	500Vdc	
General Parameter	Working temperature	-10℃~50℃	
	Storage temperature	-15℃-60℃	
	Humidity	5%~95%	
	Dimension	540*782*300mm(W*H*D)	580x450x860 (LxWxH)
	Weight	80Kg	110Kg



## Truck air-conditioning battery

### Car starting and parking air-conditioning battery lead to lithium

There are millions of trucks in the world that are engaged in long trip transport. For truck drivers, the vehicle is equivalent to their home. Most trucks still use lead-acid batteries or petrol generators to secure electricity for living.

However, lead-acid batteries have a short lifespan and low energy density, and after less than a year of use, their power level will easily drop below 40 percent. To power the air conditioner of a truck, it can only last for two to three hours, which is not enough to meet the demand for electricity for daily use.

Gasoline generator plus the cost of gasoline consumption, the overall cost is not low, and noise, and the potential risk of fire.

In response to the inability of traditional solutions to meet the daily electricity needs of truck drivers, a huge business opportunity has arisen to replace the original lead-acid batteries and gasoline generators with lithium batteries.





## Advantages of lithium battery solutions

Lithium batteries have a high energy density, and in the same volume, they can provide twice as much power as lead-acid batteries. Take the essential truck parking air conditioning for example, the current market commonly used lead-acid batteries can only support its work for 4 ~ 5 hours, while with the same volume of lithium batteries, the parking air conditioning can provide 9 ~ 10 hours of electricity.

Lead-acid batteries are fast-decaying and have a short lifespan. But lithium batteries can easily do more than 5 years of life, the overall cost is lower.

With the heating module, and it can work when it is lower than 0°C, which can effectively guarantee the normal use of the battery in the low-temperature environment.

With a GPS (4G) module, which can do accurate tracking of the battery's movement trajectory, preventing the battery from being lost and stolen, and can also view the relevant battery data, battery voltage, battery temperature, SOC and other information in the background to help users keep abreast of the battery's usage.

When a truck is replaced with a lithium-ion system, intelligent management, range time, service life, and stability of use can all be improved to different degrees.

Rated Voltage	25.6V
Norminal Capacity	205Ah
Energy	5248Wh
Max continuous working current	200A
Max continuous charging current	200A
Max starting current	1600A
Max heating current	4A
Working temperature	-20°C~60°C
Working voltage	25.0V~28.8V
Max charging voltage	29.2V
Weight	50.8Kg

# Electronic scale technical



## Product specifications and parameters

Model	ADCN02011D146
Nominal voltage	6.4V DC
Charging limit voltage	7.2V DC
Charging limit current	$\leq 1.2A$
Discharge limit current	$\leq 1.2A$
Nominal capacity	4Ah
Nominal energy	25.6Wh
Charging temperature	0~45°C
Discharge temperature	-20~55°C
Product size	70*47*101mm
Net weight	250g

## Scope of application



# BENHOO

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