



Sichuan Aobo New Energy Technology Co., Ltd.



CONTENTS

About Us	01
Certifications	02
Markets	03
Applications	04
Custom-Built Solutions	05
Combined Battery Pack System	06
Intelligent Plant	07
Battery Management and Analytics Platform	08
Products	09
Partners	20

About Us

Aobo New Energy Technology Co., Ltd. is focused on enhancing lives worldwide by providing superior power solutions that enable the success and advancement of our customers' critical applications.



Founded in 2014, Aobo New Energy Technology Co., Ltd. is an innovative provider of industrial and commercial power solutions. With expertise in chemical, mechanical, electrical and design engineering, our end-to-end consultative approach ensures we develop the right solution for your business. We are the unique manufacturer of custom-built battery packs with a legacy stretching over 8 years. We have earned a reputation for designing and manufacturing power solutions and battery packs for use in critical applications where energy demands are high, operating conditions are extreme harsh and the cost of failure is significant.

We closely manage our supplier relationships to ensure components meet or exceed your application requirements. We have long standing partnerships with world-class cell manufacturers, providing us with access to the most advanced and industry-leading technologies available. Our independent and impartial advice during the design process enables the bespoke optimization of your battery pack and application to maximize effectiveness and reliability.

CERTIFICATIONS



Markets

Aobo New Energy Technology Co., Ltd. specializes in providing power to critical applications in markets where failure is not an option. We are keenly focused on providing quality throughout the entire design and manufacturing process to ensure our products live up to our reputation for industry leading quality, reliability, and safety. Aobo New Energy Technology Co., Ltd. excels in designing ruggedized power solutions that can withstand the abuse our customers' applications are subjected to, ensuring the safe and successful completion of the missions they were designed to carry out, in the world's most demanding environments.



Aobo New Energy Technology Co., Ltd. is the premier supplier of total power solutions for the energy market, supporting numerous market segments such as vehicle traction, stationary and mobile storage, off-grid etc. For more than 8 years, our power solutions have been the first choice for environmental applications where battery power is crucial.

We offer all battery chemistries and specialise in lithium rechargeable battery packs, providing custom built battery packs, portable power and energy storage solutions complete with electronic control. We serve a wide range of markets including medical, instrumentation, measurement, personal protective equipment & safety devices, energy storage. Our power solutions are used in the latest robotic and unmanned applications and offer outstanding energy density and power output over a wide range of conditions. This is made possible by the use of innovative designs, BMS and advanced cell chemistry.

APPLICATIONS



Forklift



Road Sweeper



Mixer Truck



Golf Cart



Tow Tractor



High-capacity
Portable Power Station



RV



AGV



Marine



Hydraulic Aerial Cage



Containerized ESS



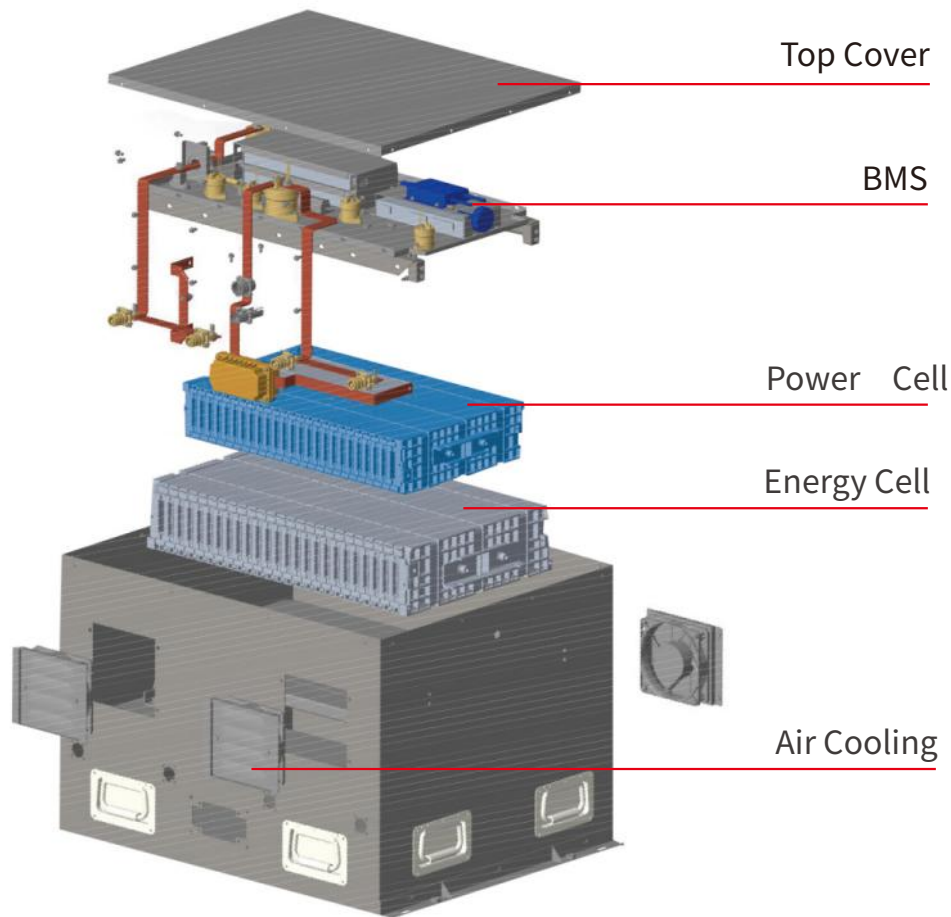
Smart Home ESS

CUSTOM-BUILT SOLUTIONS



- Long life module
- High energy module
- High power module

Combined Battery Pack System



Energy Cell (LFP) + Power Cell (LTO / LpCO) Combined Battery Pack System;

- High energy density + high power
- Doubled battery life by “operating protection mode”
- More durable and safer
- Simplified pcs with reliable control logic
- Lower cost with better performance

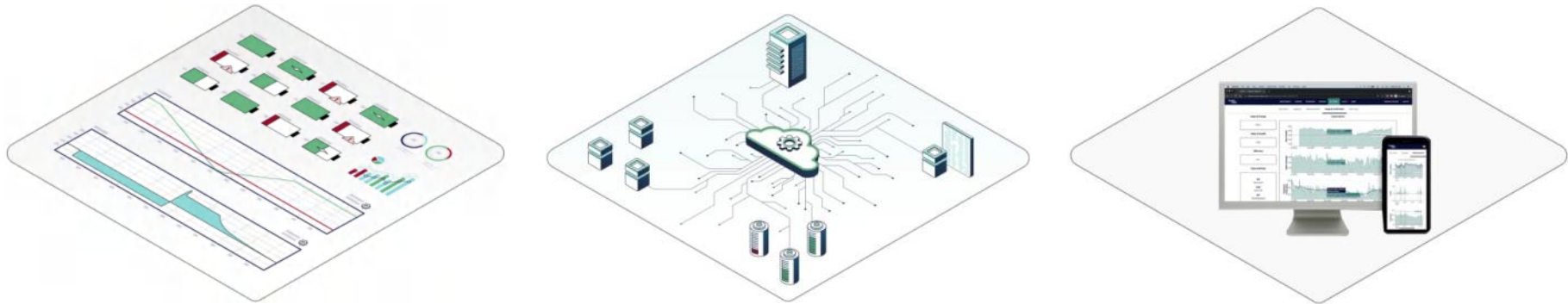
With our technologies, we are truly pushing the industry forward. Our modular battery pack system is the answer to various operational challenges. It offers the ability to simplify complex processes, use battery cells with various capacities and outputs. With customizable modules in various dimensions for all use cases, our battery packs make electromobility future-fit and ready for mass adoption.

Intelligent Plant



- Intelligent Robots
- Central Control System
- AGV Packaging Line

Battery Management and Analytics Platform



Collect Battery Data -- 24/7 data collection with custom-designed sensors

Our custom-designed wireless sensors can be easily mounted on common battery types to continuously collect important battery measurements including voltage, current, temperature etc.

Process Battery Data -- Modern IoT connectivity and battery modelling powered by AI

The collected data is delivered to our cloud IoT platform and monitored for timely detection of potential anomalies and disruptive events that can negatively impact the expected battery lifespan or cause an operational downtime.

View Advanced Analytics -- View advanced analytics

You can track the battery condition, view the collected measurements, get notifications of identified issues along with recommended actions, and keep the maintenance log - either through a dedicated web app or REST API.



24V 277AH 7.1KWH Battery Pack

BATTERY TYPE	LiFePO4
NOMINAL VOLTAGE	24V
DISCHARGE CUT-OFF VOLTAGE (2.7V)	21.6V
CHARGE CUT-OFF VOLTAGE (3.65V)	29.2V
RATED CAPACITY	277AH
ENERGY	7.1KWH
SERIES / PARALLEL / CELL COUNT	8 / 1 / 8
DIMENSIONS	648 × 336 × 244mm



WEIGHT	65kg
STANDARD CHARGE CURRENT	92.3A
MAX. CONTINUOUS DISCHARGE	1C – 277A
MAX. PEAK DISCHARGE CURRENT(< 30S)	416A
CYCLE LIFE	≥ 2,000 cycles at 25±2°C 1C / 1C 100% DOD
CHARGING TEMPERATURE	0 to 55°C
DISCHARGE TEMPERATURE	-20 to 55°C
IP RATE	IP 67
ENERGY MONITOR	Monitoring display included
SELF DISCHARGE RATE (30 DAYS) WITH BMS OFF	<3%
APPLICATION	Hydraulic aerial cage



24V 132AH 3.17KWH Battery Pack

BATTERY TYPE	Li-NMC
NOMINAL VOLTAGE	24V
DISCHARGE CUT-OFF VOLTAGE (3.0V)	21V
CHARGE CUT-OFF VOLTAGE (4.2V)	29.4V
RATED CAPACITY	132AH
ENERGY	3.17KWH
SERIES / PARALLEL / CELL COUNT	7 / 1 / 7
DIMENSIONS	471 × 357 × 218mm

WEIGHT	34kg
MAX. CONTINUOUS DISCHARGE	1C – 132A
MAX. PEAK DISCHARGE (< 30S)	200A
CYCLE LIFE	≥ 2,000 cycles at 25±2°C 1C / 1C 100% DOD
CHARGING TEMPERATURE	0 to 55°C
DISCHARGE TEMPERATURE	-20 to 55°C
IP RATE	IP 67
ENERGY MONITOR	Monitoring display included
SELF DISCHARGE RATE (30 DAYS) WITH BMS OFF	<3%
APPLICATION	hydraulic aerial cage





48V 420AH 20.1KWH LFP+ LpCO COMBINED BATTERY PACK

BATTERY TYPE	LiFePO4 + LpCO
NOMINAL VOLTAGE	48V
DISCHARGE CUT-OFF VOLTAGE (LFP2.7-LpCO3.2V)	44.8V
CHARGE CUT-OFF VOLTAGE (3.65-4.7V)	54.7V
RATED CAPACITY	420AH
ENERGY	20.1KWH
DIMENSIONS	1,037 × 1,025 × 525mm

WEIGHT	1,350kg
MAX. CONTINUOUS DISCHARGE	1C – 420A
MAX. PEAK DISCHARGE (< 30S)	840A
MAX. CHARGING CURRENT	200A
CYCLE LIFE	≥ 2,000 cycles at 25±2°C
	1C / 1C 100% DOD
CHARGING TEMPERATURE	0 to 55°C
DISCHARGE TEMPERATURE	-20 to 60°C
IP RATE	IP65
ENERGY MONITOR	Monitoring display included
SELF DISCHARGE RATE (30 DAYS) WITH BMS OFF	<3%
APPLICATION	Forklift





48V 315AH 17.1KWH Battery Pack

BATTERY TYPE	LiFePO4
NOMINAL VOLTAGE	48V
DISCHARGE CUT-OFF VOLTAGE (2.7V)	40.5V
CHARGE CUT-OFF VOLTAGE (3.65V)	54.7V
RATED CAPACITY	356AH
ENERGY	15.1KWH
SERIES / PARALLEL / CELL COUNT	15 / 3 / 45
DIMENSIONS	990 × 545 × 630mm

WEIGHT	720kg
MAX. CHARGING CURRENT	200A
MAX. CONTINUOUS DISCHARGE	1C – 356A
MAX. PEAK DISCHARGE (< 30S)	534A
CYCLE LIFE	≥ 2,000 cycles at 25±2°C
	1C / 1C 100% DOD
CHARGING TEMPERATURE	0 to 55°C
DISCHARGE TEMPERATURE	-20 to 55°C
IP RATE	IP65
ENERGY MONITOR	Monitoring display included
SELF DISCHARGE RATE (30 DAYS) WITH BMS OFF	<3%
APPLICATION	Forklift





80V 610AH 48.8KWH LFP+ LpCO COMBINED BATTERY PACK

BATTERY TYPE	LiFePO4 + LpCO
NOMINAL VOLTAGE	80V
DISCHARGE CUT-OFF VOLTAGE (2.7V)	60V
CHARGE CUT-OFF VOLTAGE (3.65V)	84V
RATED CAPACITY	610AH
ENERGY	48.8KWH
DIMENSIONS	1,025 × 685 × 800mm



WEIGHT	1,400kg
MAX. CHARGING CURRENT	200A
MAX. CONTINUOUS DISCHARGE	1C – 610A
MAX. PEAK DISCHARGE (< 30S)	915A
CYCLE LIFE	≥ 2,000 cycles at 25±2°C
	1C / 1C 100% DOD
CHARGING TEMPERATURE	0 to 55°C
DISCHARGE TEMPERATURE	-20 to 60°C
IP RATE	IP65
ENERGY MONITOR	Monitoring display included
SELF DISCHARGE RATE (30 DAYS) WITH BMS OFF	<3%
APPLICATION	Forklift



80V 460AH 36.8KWH Battery Pack

BATTERY TYPE	LiFePO4
NOMINAL VOLTAGE	80V
DISCHARGE CUT-OFF VOLTAGE (2.7V)	67.5V
CHARGE CUT-OFF VOLTAGE (3.65V)	91.2V
RATED CAPACITY	460AH
ENERGY	36.8KWH
SERIES / PARALLEL / CELL COUNT	25 / 2 / 50
DIMENSIONS	1,025 × 685 × 800mm

WEIGHT	1,400kg
MAX. CHARGING CURRENT	200A
MAX. CONTINUOUS DISCHARGE	1C – 460A
MAX. PEAK DISCHARGE (< 30S)	690A
CYCLE LIFE	≥ 2,000 cycles at 25±2°C
	1C / 1C 100% DOD
CHARGING TEMPERATURE	0 to 55°C
DISCHARGE TEMPERATURE	-20 to 55°C
IP RATE	IP65
ENERGY MONITOR	Monitoring display included
SELF DISCHARGE RATE (30 DAYS) WITH BMS OFF	<3%
APPLICATION	Forklift





320V 31AH 9.92KWH Battery Pack

BATTERY TYPE	LiFePO4
NOMINAL VOLTAGE	320V
DISCHARGE CUT-OFF VOLTAGE (2.7V)	270V
CHARGE CUT-OFF VOLTAGE (3.65V)	365V
RATED CAPACITY	31AH
ENERGY	9.92KWH
SERIES / PARALLEL / CELL COUNT	100 / 1 / 100
DIMENSIONS	710 × 575 × 445mm



WEIGHT	180kg
MAX. CHARGING CURRENT	60A
STANDARD CHARGE CURRENT	120A
MAX. CONTINUOUS DISCHARGE CURRENT	186A at 25°C
MAX. PEAK DISCHARGE (< 60S)	≥ 4,500 cycles at 25±2°C
CYCLE LIFE	1C / 1C 80% DOD
	0 to 55°C
CHARGING TEMPERATURE	-20 to 60°C
DISCHARGE TEMPERATURE	IP43
IP RATE	Monitoring display included
ENERGY MONITOR	<3%
SELF DISCHARGE RATE (30 DAYS)	Concrete mixer truck
APPLICATION	



320V 206AH 65.9KWH Battery Pack

BATTERY TYPE	LiFePO4
NOMINAL VOLTAGE	320V
DISCHARGE CUT-OFF VOLTAGE (2.7V)	270V
CHARGE CUT-OFF VOLTAGE (3.65V)	365V
RATED CAPACITY	206AH
ENERGY	65.9KWH
SERIES / PARALLEL / CELL COUNT	100 / 1 / 100
DIMENSIONS	645 × 1,176 × 486mm

WEIGHT	61kg
MAX. CHARGING CURRENT	103A
MAX. CONTINUOUS DISCHARGE	1C – 206A
MAX. PEAK DISCHARGE (< 10S)	2C – 412A
CYCLE LIFE	≥ 2,000 cycles at 25±2°C
	1C / 1C 100% DOD
CHARGING TEMPERATURE	0 to 55°C
DISCHARGE TEMPERATURE	-20 to 55°C
IP RATE	IP67
ENERGY MONITOR	Monitoring display included
SELF DISCHARGE RATE (30 DAYS) WITH BMS OFF	<3%
APPLICATION	Sweeping Cleaner





20 ft

Containerized Energy Storage System (ESS)

This mobile and modular solution includes batteries, inverter, HVAC, fire protection and auxiliary components, all tested and pre-assembled by our experts, and seamlessly operated by our smart software. It can be delivered and deployed almost anywhere. Single units can be easily combined to deliver the power and energy capacity required for your business. The system can cover a variety of applications from 1 MW up to multi-MW power output and is available as power and energy version.

AOBO Control Platform

Our intelligent software allows fast response times and precise energy management to increase battery performance. It determines in real-time how to dispatch our ESS containers as well as all other microgrid assets to maximize value for our customers while maintaining grid reliability and power quality. Our control platform can easily be configured to your needs and adapted when new market applications emerge, keeping you on top of things.



40 ft

Features

- All-in-one 20 ft / 40ft standard container
- Integrated thermal management and fire suppression
- Closed ventilation system for deployments in harsh conditions with exposure to dust, sea water or salt spray
- Wide ambient temperature range
- Fire detecting and protection system
- HVAC
- Battery management system (BMS)
- Output Voltage: 400 / 480V, 3-phase, output frequency 50 Hz or 60 Hz
- Ambient operating conditions: -20 °C to +45 °C, relative humidity 0 - 95 %, non-condensing
- Power and capacity: Scalable from kW / kWh up to MW / MWh
- Expected lifetime \geq 5,000 cycles or \geq 10 years
- Dimensions / Layout: 20 ft or 40 ft container(s) or customized dimension
- Communication: RS485 / CAN / LAN

Benefits

- Mobile and modular
- Fast deployment and quick setup on-site
- Easy integration with our thermal unit
- Integrate more renewables and lowers your fuel costs



5 YEARS WARRANTY

ABP2000 High-capacity Portable Power Station

CAPACITY:	2,160Wh (43.2V 50Ah)
CELL CHEMISTRY:	Lithium-ion battery
CYCLE LIFE:	1,000 cycles to 80%+ capacity
MANAGEMENT SYSTEM:	BMS, over voltage protection, short circuit protection
WEIGHT:	19.5kg
DIMENSIONS:	384*269*307.5mm
OPERATING TEMPERATURE:	-10 - 40°C



AC OUTPUT:	120V, 60Hz, 2,200W (4,400W Peak)
USB-A OUTPUT:	Quick charge, 18W Max
USB-C OUTPUT:	100W Max, (5V, 9V, 12V, 15V, 20V up to 5A)
CAR PORT:	12V, 10A
AC INPUT:	120V, 60Hz, 15A Max.
DC INPUT:	11V - 17.5V, 8A Max., double to 8A Max. 17.5V - 60V, 12A, double to 24A / 1,400W Max.

Packaging Contents

1 × Car Charge Cable	1 × AC Charge Cable
1 × Adapter	1 × User Manual

PARTNERS



Your Trusted Lithium Power Solution Provider

SEGMENTS

- Construction equipment
- Material handling equipment
- Special machines
- Agricultural applications
- Marine
- Municipal vehicles
- Energy storage system
- Automotive market
- Worksite mobile power station
- Outdoor portable power station



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