

SHANGHAI OE INDUSTRIAL CO., LTD. PRODUCT BROCHURE - EV BATTERY

PURPOSE-BUILT SMART EV BATTERY SYSTEM

Brogen can customize and develop battery systems for various application scenarios according to customer needs, equipped with our self-developed battery management system to ensure the scientific utilization of battery energy, extend the cycle life of the battery system, and enhance system safety.

We have developed a comprehensive and well-structured project engagement service system designed to support your project at every stage, from pre-sales consultation to in-sales execution and post-sales support.

Understand your needs -> System design -> Technical coordination -> Parts/system test -> Shipping -> Post-sales technical support

Applications







Trailer



Bus/Coach



Logistics Vehicle











ehicle Train

Construction Machinery



PRODUCT CERTIFICATION

 Our products are of excellent quality, and we can assist clients in applying for industry certifications, providing documents for certifications that cover specialized standards such as MSDS, UN38.3, ISO26262 and R100.



PRODUCT VALIDATION

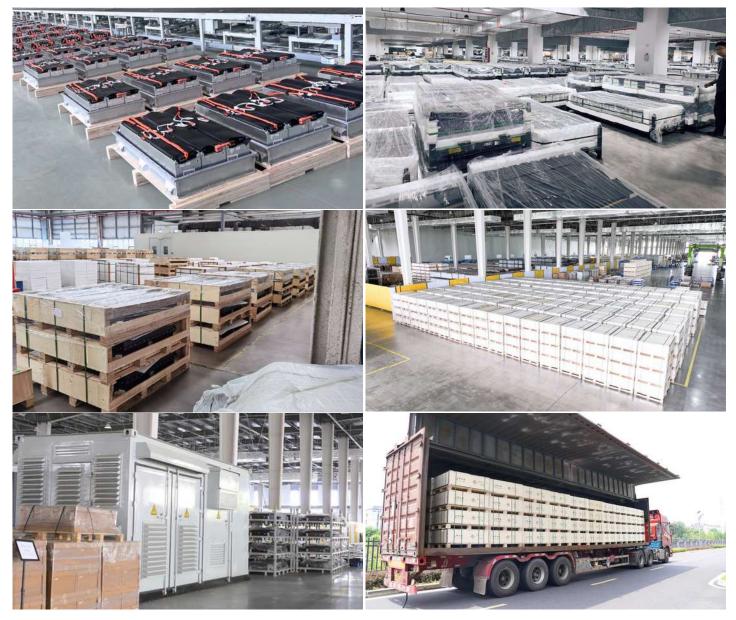
- The Testing and Validation Center has obtained CNAS laboratory accreditation, equipped with industry-leading testing and validation facilities and a high-caliber testing team.
- It possesses professional capabilities for comprehensive BMS testing, PACK charge-discharge testing, and PACK system EOL testing, meeting the company's full-range testing needs from batteries to systems. With its professional testing expertise, it ensures the safety and reliability of product quality.



SMART MANUFACTURING

- The Smart Manufacturing Center is equipped with a fully automated SMT high-speed placement line, an automatic conformal coating line, an aging room, a wire harness manufacturing workshop, fully automated module production lines, flexible module production lines, and complete packaging assembly lines.
- Through continuous process innovation and leveraging digitalization and automation, we enhance product quality and strive to establish a benchmark factory in the new energy industry.





EV BATTERY CATALOG

	EV Battery Standard Box (LFP)				
Model	System Energy	System Nominal Voltage	Dimensions		
OE-KW105-C1	32.256 kWh	307.2V	1060*630*240mm		
OE-KW105-C2	32.256 kWh	153.6V	1060*630*240mm		
OE-KW105-C3	32.256 kWh	102.4V	1060*630*240mm		
OE-GC228	35.020 kWh	153.6V			
OE-JK105-C	32.256 kWh	153.6V	1060*630*240mm		
OE-JK173-C	35.095 kWh	202.9V	1060*630*240mm		
OE-JK230-C	35.328 kWh	153.6V	1060*630*240mm		
OE-JK280-C	32.256 kWh	115.2V	1060*630*240mm		
OE-JK304-C	35.020 kWh	115.2V	1060*630*240mm		
OE-XY165-C1	28.512 kWh	172.8V	1060*630*240mm		
OE-XY165-C2	19.000 kWh	115.2V	(790±10)*(630±10)*(240±5)mm		
OE-KW90-C1	27.64 kWh	307.2V	1060*630*240mm		
OE-KW90-C2	27.64 kWh	153.6V	1060*630*240mm		
OE-KW90-C3	27.64 kWh	102.4V	1060*630*240mm		
OE-KW90-B1	17.28 kWh	192V	820*630*240mm		
OE-KW90-B2	17.28 kWh	96V	820*630*240mm		
OE-KW90-B3	17.28 kWh	64V	820*630*240mm		
OE-KW105-B2	20.16 kWh	96V	820*630*240mm		
OE-KW105-B3	20.16 kWh	64V	820*630*240mm		
OE-KW105-H2	24.192 kWh	115.2V	870*630*240mm		
OE-KW105-G3	28.22 kWh	89.6V	950*630*245mm		

EV BATTERY CATALOG

		High-energy Battery Box (LF	P)		
Model	System Energy	System Nominal Voltage	Energy Density	Dimensions	
OE-KW173-C	35.095 kWh	203V	155.2 Wh/Kg	1060*630*240mm	
OE-KW173-G	30.081 kWh	174V	155.1 Wh/Kg	955×630×240mm	
OE-KW173-B	23.397 kWh	135V	155.4 Wh/Kg	820×630×245mm	
OE-KW230-C	35.328 kWh	154V	164.5 Wh/Kg	1060×630×245mm	
OE-KW230-G	28.704 kWh	125V	160.97 Wh/Kg	950×630×245mm	
OE-KW304-C	35.02 kWh	115V	160.9 Wh/Kg	1060×630×245mm	
OE-KW304-G	29.18 kWh	96V	160.08 Wh/Kg	950×630×245mm	
	Mult	i-Sided Liquid-cooled Battery E	Box (LFP)		
Model	System Energy	System Nominal Voltage	Thermal Management	Dimensions	
OE-KW304-LC	35.02 kWh	115.2V	Heating film/Liquid cooling	1060*630*240mm	
OE-KW230-LC	35.328 kWh	153.6V	Heating film/Liquid cooling	1060*630*240mm	
EV Battery Pack (Blade Cell)					
Model	System Energy	System Nominal Voltage	Applications	Dimensions	
OE-XY113-Blade	75.89 kwh	335.8V	Commercial/Passenger Vehicle	1691*1452*147.5mm	
OE-XY212-Blade	131.99 kwh	622.64V	Commercial/Passenger Vehicle	1526*1522*278mm	

EV BATTERY CATALOG

EV Battery Pack for Various Vehicles				
Model	System Energy	System Nominal Voltage	Applications	Dimensions
OE-KW150-LT	81.144 kWh	540V	Light Truck	2235*769*250mm
OE-KW304-HT	70.041 kWh	230V	Heavy-duty Truck	2120*625*245mm
OE-KW105-LG1	29.258 kWh	281.6V		1278*1250*262mm
OE-KW105-LG2	33.600 kWh	320V		1278*1250*262mm
OE-KW150-LG	46.368 kWh	309.12V	Logistics Vehicle	1115*880*262mm
OE-GC410-LG1	31.488 kWh	76.8V		
OE-GC410-LG2	31.488 kWh	76.8V	Mini Pickup Truck	
OE-KWNMC-1	32.76 kWh (NMC cell)	327.6V	Hybrid Passenger Car	1458*1100*181mm
OE-KWNMC-2	85.966 kWh (NMC cell)	352.32V	Pure Electric Passenger Car	2211*1260*193mm
OE-GC202-SS	5.17 kWh	25.2V	Chunch Courses	
OE-GC300-SS	14.4 kWh	48V	Street Sweeper —	
OE-JK280-AP	64.512 kWh	76.8V		952*631*670mm
OE-JK230-AP(L)	70.66 kWh	80V		940*565*728mm
OE-JK230-AP(H)	70.66 kWh	320V	Airport/Port GSE	940*565*728mm
OE-JK173-AP	66.432 kWh	384V		1112*641*612mm

EV BATTERY STANDARD PACK



Features

- **Standardized**: standardized module and PACK design. Highly versatile, suitable for a variety of truck and bus models
- Strong Adaptability: the housing is made of high-strength, corrosion-resistant materials, featuring waterproof, dustproof, and fireproof properties, ensuring stable operation in various harsh environments.
- Fast Charging Support: supports a fast charging current of 165A, significantly reducing charging time and improving vehicle operational efficiency.
- Lightweight: lightweight design from module to pack.

LFP Standard Battery Box

Standard Box Model	OE-KW105-C1	OE-KW105-C2	OE-KW105-C3	OE-GC228	OE-JK105-C	OE-JK173-C	OE-JK230-C	OE-JK280-C	OE-JK304-C
Battery Cell		105Ah		228Ah	105Ah	173Ah	230Ah	280Ah	304Ah
Energy	32.256 kWh	32.256 kWh	32.256 kWh	35.02 kWh	32.256 kWh	35.095 kWh	35.328 kWh	32.256 kWh	35.020 kWh
Nominal Voltage	307.2V(96S)	153.6V(48S)	102.4V(32S)	153.6V	153.6V	202.9V	153.6V	115.2V	115.2V
Rated Capacity	105Ah	210Ah	315Ah	228Ah	210Ah	173Ah	230Ah	280Ah	304Ah
Operating Temperature Range	-30°C~60°C			-30°C~55°C	-35°C~45°C				
Thermal Management	PTC heating/liquid cooling			Heating/liquid cooling		H	eating film/liquid cool	ing	
Protection Rating	IP68/69	IP68/69	IP68/69	IP67	IP67				
Charge Rate	1C 1C 250A						1C		
Product Dimensions	1060*630*240mm	1060*630*240mm	1060*630*240mm		1060*630*240mm	1060*630*240mm	1060*630*240mm	1060*630*240mm	1060*630*240mm

EV BATTERY STANDARD PACK



Features

- Flexible Configuration: the standard 19kWh battery pack can be flexibly combined to form Energy systems with varying capacities such as 95kWh and 114kWh, meeting diverse range requirements.
- **Rationalized Layout**: core components adopt a modular design, allowing each part to be independently detached for easy maintenance and replacement.
- **Application Scenarios:** widely used in urban public transportation, meeting the operational demands of buses for efficiency, safety, and environmental friendliness.

LFP Standard Battery Box

Standard Box Model	OE-XY165-C1	OE-XY165-C2	OE-KW90- C1	OE-KW90- C2	OE-KW90- C3	OE-KW90- B1	OE-KW90- B2	OE-KW90- B3	OE-KW105- B2	OE-KW105- B3	OE-KW105- H2	OE-KW105- G3
Battery Cell	165Ah	165Ah		90Ah			90Ah			105	Ah	
Energy	28.512 kWh	19 kWh	27.64 kWh	27.64 kWh	27.64 kWh		17.28 kWh		20.16 kWh	20.16 kWh	24.192 kWh	28.22 kWh
Nominal Voltage	172.8V	115.2V	307.2V(96S)	153.6V(48S)	102.4V(32S)	192V (60S)	96V (30S)	64V (20S)	96V (30S)	64V (20S)	115.2V (36S)	89.6V (28S)
Rated Capacity	165Ah	165Ah	90Ah	180Ah	270Ah	90Ah	180Ah	270Ah	210Ah	315Ah	210Ah	315Ah
Energy Density				≥125 Wh/Kg			≥125Wh/Kg		140.8 Wh/kg	140.9 Wh/kg	143.63 Wh/kg	144.4 Wh/kg
Operating Temperature Range				-30°C~60°C			-30°C~60°C			-30°C	-60°C	
Thermal Management	Heating film/n	atural cooling	PTC h	eating/liquid c	cooling	PTC heating/liquid cooling		cooling	PTC heating/liquid cooling			
Protection Rating	IP67	IP67	IP68		IP68			IP68/69				
Charge Rate			1.5C	1C	250A	1.5C	1C	250A	1C	250A	1C	250A
Product Dimensions	1060*630*240mm	(790±10)*(630±10)* (240±5)mm	10	60*630*240n	nm	8	20*630*240m	nm	820*630)*240mm	870*630*240 mm	950*630*245 mm

HIGH-ENERGY BATTERY PACK



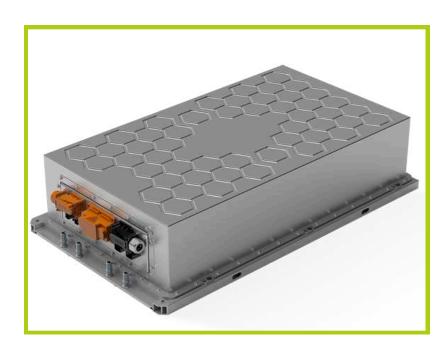
Features

- **Lightweight**: the water-cooled integrated aluminum profile welded box pallet structure features a water-cooling plate with unequal wall thickness, reducing the weight to 11Kg while maintaining high safety and durability.
- Superior Thermal Management: excellent thermal management performance with an operating temperature range of -30°C to 60°C
- **High Space Utilization**: over 91% utilization rate from cell to PACK.
- High Specific Energy: energy density >160Wh/kg
- Intelligent Battery Module: cascade recycling, direct secondary use

High-energy LFP Battery Box

Standard Box Model	OE-KW173-C	OE-KW173-G	OE-KW173-B	OE-KW230-C	OE-KW230-G	OE-KW304-C	OE-KW304-G
Battery Cell		173Ah		230	DAh	30	4Ah
Energy	35.095 kWh	30.081 kWh	23.397 kWh	35.328 kWh	28.704 kWh	35.02 kWh	29.18 kWh
Nominal Voltage	203V	174V	135V	154V	125V	115V	96V
Pack Configuration	1P63S	1P54S	1P42S	1P48S	1P39S	1P36S	1P30S
Energy Density	155.2 Wh/Kg	155.1 Wh/Kg	155.4 Wh/Kg	164.5 Wh/Kg	160.97 Wh/Kg	160.9 Wh/Kg	160.08 Wh/Kg
Operating Temperature Range		-30°C~60°C		-30°C	~60°C	-30°C	
Thermal Management		Heating/liquid cooling		Heating/liq	uid cooling	Heating/lic	quid cooling
Protection Rating		IP69			/IP69	IP69	
Charge Rate	1C	1C	1C	1C	1C	250A	
Product Dimensions	1060×630×240mm	955×630×240mm	820×630×245mm	1060×630×245mm	950×630×245mm	1060×630×245mm	950×630×245mm

MULTI-SIDED LIQUID-COOLED BATTERY PACK



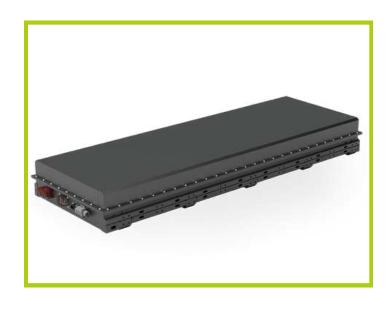
Features

- High-Security Design: IP68 high-level exterior protection enhances electrical performance, with internal insulation protection for the box cover.
- Multi-Sided Liquid Cooling Technology: multi-sided heat dissipation for battery cells increases cooling efficiency by 30%, supporting vehicle-wide liquid thermal management.
- All-Weather Temperature Control Design: meets maximum heating demands of 0.3°C/min, featuring charging/driving heating, cooling, and self-circulating temperature differential strategies for comprehensive temperature control.
- Winter Insulation Design: adapted for extreme cold regions, supports low-temperature charging with reduced heat dissipation from the box, lowering temperature drop rate by 35% to ensure vehicle range in winter.

Multi-sided liquid-cooled LFP Battery Box

Standard Box Model	OE-KW304-LC	OE-KW230-LC
Pack Configuration	1P35.02S	1P48S
Energy	35.02 kWh	35.328 kWh
Nominal Voltage	115.2V	153.6V
Operating Temperature Range	-30°C~60°C	-30°C~60°C
Thermal Management	Heating film/liquid cooling	Heating film/liquid cooling
Protection Rating	IP68	IP68
Charge Rate	250A	1C
Weight	226kg	225kg
Product Dimensions	1060*630*240mm	1060*630*240mm

LIGHT TRUCK BATTERY PACK



Features

- Long Lifespan: 8 years/10 years
- Layered design for high and low voltage: uniform PTC heating with high internal temperature consistency

Light Truck Battery Pack

Model	OE-KW150-LT
Battery Cell	150Ah
Pack Configuration	1P168S
System Energy	81.144 kWh
System Nominal Voltage	540V
Energy Density	160 Wh/Kg
Operating Temperature	-30°C~60°C
Protection Rating	IP68/IP69
Thermal Management	PTC heating/natural cooling
Charge Rate	1C
Dimensions	2235*769*250mm

HEAVY TRUCK BATTERY PACK



Features

- **Long Lifespan**: 4200+ cycles
- High Intensity: multi-layer high-low pressure design, concave-convex structure design of the casing
- High Safety: advanced protection system technology, high-safety battery cell technology

Heavy Truck Battery Pack

Model	OE-KW304-HT	
Battery Cell	304Ah	
Pack Configuration	1P72S	
System Energy	70.041 kWh	
System Nominal Voltage	230V	
Energy Density	160 Wh/Kg	
Operating Temperature	-30°C~60°C	
Protection Rating	IP68/IP69	
Thermal Management	PTC heating/liquid cooling	
Charge Rate	1C	
Dimensions	2120*625*245mm	

LOGISTICS VEHICLE BATTERY PACK



Features

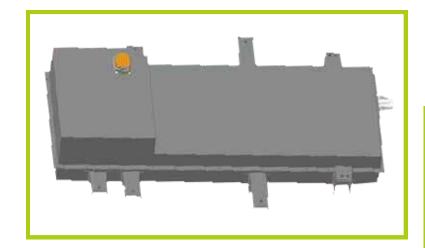
- **Modularity**: standardized components with flexible system capacity configuration, uniform envelope for different capacities, and unified vehicle chassis.
- **Long Lifespan**: 2000 long cycles, with an overall system service life exceeding 5 years.
- **Convenience**: split bracket installation allows for independent mounting, saving installation space.
- Applicability: compatible with micro commercial vehicles, unmanned delivery for the "last mile," and future integration with autonomous driving.

Logistics Vehicle LFP Battery Pack

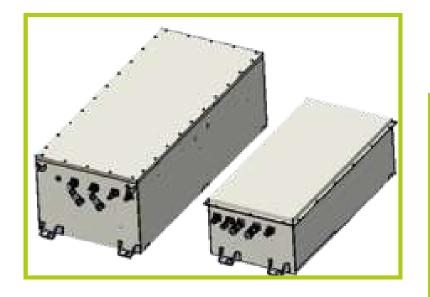
Model	OE-KW105-LG1	OE-KW150-LG			
Battery Type	LFP-105Ah	LFP-105Ah	LFP-150Ah		
Voltage Platform	281.6V	320V	309.12V		
System Energy	29.258 kWh	33.6 kWh	46.368 kWh		
Pack Configuration	1P88S 1P100S		1P96S		
Weight	257kg	281kg	363kg		
Operating Temperature	-30°C~60°C				
Thermal Management	Natural cooling/Silicone heating film				
Protection Rating	IP68				
Charge/Discharge Rate	1C (25°C)				
Product Dimensions	1278*1250*262mm 1115*880*262mm				



LOGISTICS VEHICLE BATTERY PACK









Logistics Truck Battery Pack

Model	OE-GC410-LG1
Rated Capacity	410Ah
System Nominal Voltage	76.8V
System Energy	31.488 kWh
Operating Temperature	-30~55°C
Battery Type	LFP
Thermal Management	Heating film
Protection Rating	IP67

Mini Pickup Truck Battery Pack

Model	OE-GC410-LG2
Rated Capacity	410Ah
System Nominal Voltage	76.8V
System Energy	31.488 kWh
Operating Temperature	-30~55°C
Battery Type	LFP
Thermal Management	Heating film
Protection Rating	IP67

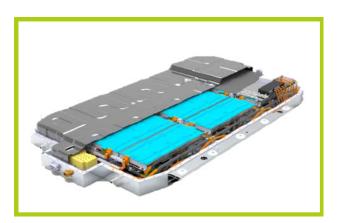
PASSENGER CAR BATTERY PACK

Hybrid Passenger Car Battery Pack



Model	OE-KWNMC-1		
Battery Type	MnNiCo ternary battery		
System Nominal Voltage	327.6V (90S)		
System Energy	32.76 kWh		
Energy Density	138 Wh/Kg		
Operating Temperature	-30℃~55℃		
Cooling Method	Liquid cooling		
Protection Rating	IP68		
System Charging Rate	1.5C		
System Nominal Discharge Rate	2.3C		
System Peak Pulse Discharge Rate	5C, 10s		
Product Dimensions	1458*1100*181mm		

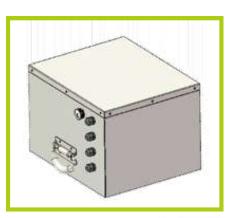
Pure Electric Passenger Car Battery Pack



Model	OE-KWNMC-2
Battery Type	MnNiCo ternary battery
System Nominal Voltage	352.32V (96S)
System Energy	85.966 kWh
Energy Density	179 Wh/Kg
Operating Temperature	-30℃~55℃
Cooling Method	Liquid cooling
Protection Rating	IP68
System Charging Rate	1C
System Nominal Discharge Rate	1.2C
System Peak Pulse Discharge Rate	2.5C, 10s
Product Dimensions	2211*1260*193mm

STREET SWEEPER BATTERY PACK

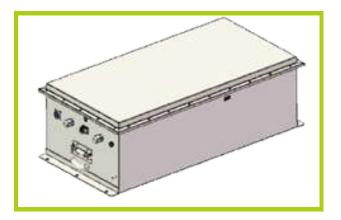
Street Sweeper Battery Pack





Model	OE-GC202-SS
Battery Type	LFP
System Nominal Voltage	25.2V
Rated Capacity	202Ah
System Energy	5.17 kWh
Motor Power	ЗКW
Cycle Life	>2000
Protection Rating	IP67

Street Sweeper Battery Pack





Model	OE-GC300-SS	
Battery Type	LFP	
System Nominal Voltage	48V	
Rated Capacity	300Ah	
System Energy	14.4 kWh	
Motor Power	зкw	
Cycle Life	>2000	
Protection Rating	6h	

SPECIAL USE BATTERY (FOR AIRPORT GSE)





Features

- High Energy Density: >125wh/kg LFP battery to cope with heavy load and high frequency operation needs.
- Long Endurance: high power and durable battery system ensures the equipment to be available 24/7.
- Environmental Resistance: stable operation in extreme environments such as low temperature and high humidity.
- **Applications**: electric aircraft tractor; airport baggage tractor/tow truck; airport baggage conveyor; passenger ladders; port cranes/AGVs; container crane tractor; production line AGV...

Battery Pack For Ground Support Equipment

Model	OE-JK280-AP	OE-JK230-AP(L)	OE-JK230-AP(H)	OE-JK173-AP (Liquid-cooled version compatible)
Items	Airport GSE (low voltage)		Airport GSE (high voltage)	
Battery Cell	280Ah	230Ah	230Ah	173Ah
System Voltage	76.8V	80V	320V	384V
System Energy	64.512 kWh	70.66 kWh	70.66 kWh	66.432 kWh
System Capacity	840Ah	920Ah	230Ah	173Ah
Configuration	3P24S	4P24S	1P96S	1P120S
Dimensions	952*631*670mm	940*565*728mm	940*565*728mm	1112*641*612mm





EV BATTERY PACK (BLADE BATTERY CELL)





Features

- **Modular Design and Maintainability**: core components can be independently disassembled and replaced, reducing maintenance costs. Rationalized layout design enhances maintenance efficiency.
- Flexible Configuration: system capacity can be flexibly configured to meet application needs in various scenarios.
- Intelligent Operation: monitor system status in real-time via mobile apps, local host computers, and cloud data platforms. Enable intelligent analysis and prediction of battery status to optimize battery lifespan. Supports rapid fault localization, improving operational efficiency.
- **Environmental Adaptability**: the system casing is made of high-strength, corrosion-resistant materials, suitable for complex environments such as high temperatures, high humidity, and dust. Features excellent waterproof, dustproof, and fireproof performance, ensuring reliable operation under harsh conditions.

EV Battery Pack (Blade Battery Cell)

Model	Parameters	OE-XY113-Blade	OE-XY212-Blade
Cell	Cell Type	Blade battery	Blade battery
	Rated Capacity	113Ah	212Ah
	Nominal Voltage	3.65V	3.65V
	Operating Voltage Range	2.5V~4.32V	2.5V~4.3V
	Pack Configuration	2P92S	1P172S
	Rated Capacity	226Ah	212Ah
	Nominal Voltage	335.8V	622.64V
	System Energy	75.89 kwh	131.99 kwh
	Operating Voltage Range	230V~397.44V	430V~739.6V
System	SOC Working Range (%)	0%~98%	0%~98%
System	Weight	416kg	770kg
	Energy Density	182 Wh/kg	171 Wh/kg
-	Protection Rating	IP67/IP6K9K	IP68
	Thermal Management	Liquid cooling/liquid heating	Liquid cooling/liquid heating
	BMS Layout	1*BMU+2*CMC	1*BMU+2*CMC
	Dimensions	1691*1452*147.5mm	1526*1522*278mm



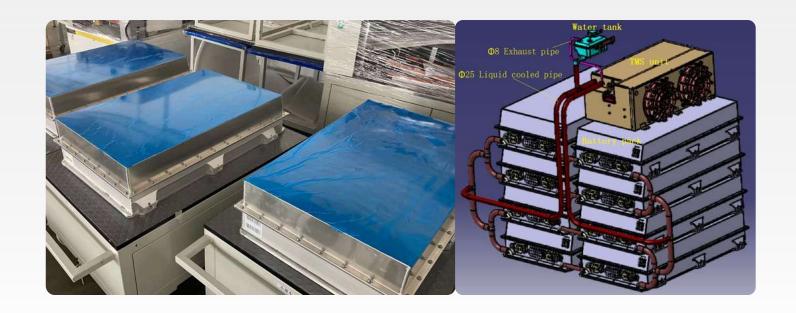
Explore BROGEN's latest projects, delivering exceptional client service, excellent value and sustainable practices.

Our hige voltage battery systems are carefully designed to meet your specific needs through a versatile battery pack design.

280 kWh 614V Bus Battery

Turkey | 8m Bus, 12m Bus

8 battery boxes; high-voltage box (including BMS); 8KW water cooling unit



280 kWh 614V Bus Battery

Australia | Double-decker Bus

8 battery boxes; 8KW water cooling unit

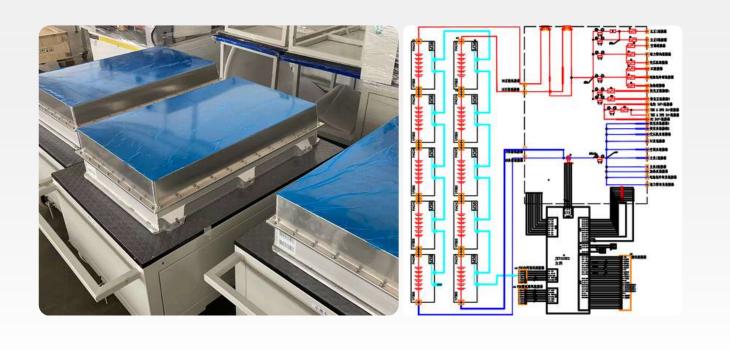




350 kWh 576V Bus Battery

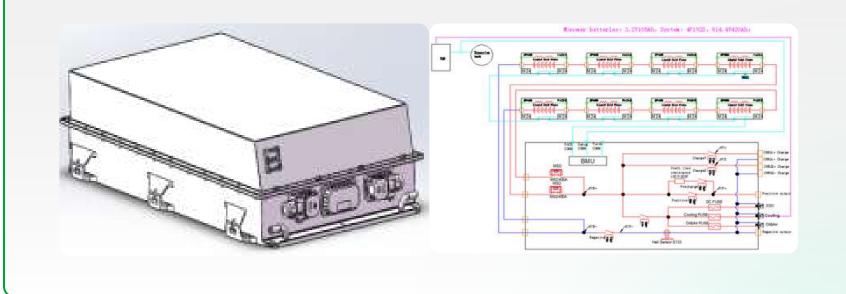
Middle East | 12m Bus

10 battery boxes; BMS System 576V 608Ah 350.21kWh



258 kWh 614V Train Battery Indonesia | Train 8 battery boxes: PDII: 7.6KW water cooling ur

8 battery boxes; PDU; 7.6KW water cooling unit System 614V 420Ah 258kWh





500 kWh 640V Truck Battery

Australia | 15T Mining Truck

5 blade battery B boxes; high-voltage box; 2*15KW BTMS

Explore More



49 kWh 326V Truck Battery

Chile | Light Truck

326.4V 150Ah air-cooled battery pack; BMU; BCU; 6.6KW OBC+1.5KW DCDC

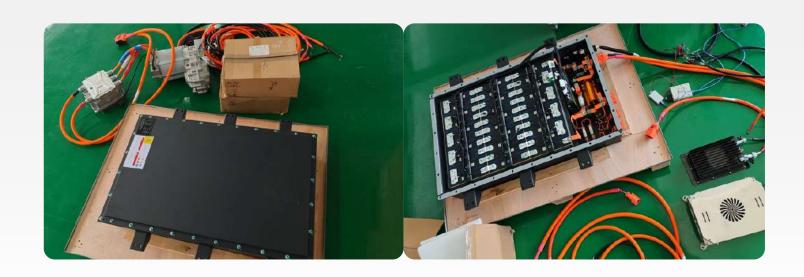




14 kWh 96V ORV Battery

Turkey | Recreational Off-road Vehicle

96V 150Ah battery pack; 96V 105Ah battery pack; 6.6KW on board charger



483 kWh 576V Boat Battery

Spain | 6T Boat

2 independent group (241 kWh) with each containing 2 clusters (120 kWh) and each cluster containing 10 modules.

Explore More















120.9 kWh 8m City bus

93.5 kWh 8m City bus

150.5 kWh 10m City bus

64.5 kWh 6.6m City bus









30.46 kWh Mini bus

104.42 kWh Heavy truck

116.03 kWh Dump truck

48 kWh Tractors





16.58 kWh Fuel cell light truck



66.8 kWh Aircraft towing tractor



60.02 kWh Fuel cell heavy truck



46.6 kWh Baggage belt loader



50 kWh - Street sweeper



193.5 kWh Airport ground power unit



41.6 kWh - Street sweeper



266.4 kWh Port AGV



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