



SHANGHAI OE INDUSTRIAL CO., LTD.



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PRODUCT BROCHURE - MARINE 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



Light Truck



Heavy-duty Truck



Trailer



Bus/Coach



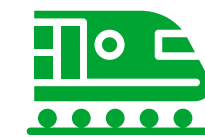
Logistics Vehicle



Boat



Passenger Vehicle



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.



电池测试系统
Battery test system



动力电池组工况模拟测试系统
Power battery pack working condition simulation test system



VCU HIL仿真测试系统
VCU HIL simulation test system



MCU & BMS HIL仿真测试系统
MCU & BMS HIL simulation test system



BMS 全方位验证
BMS comprehensive verification



电动振动试验系统
Electrodynamic vibration test system



卧式电池挤压针刺试验机
Horizontal battery extrusion acupuncture testing machine



模拟高空低压试验机
Simulated high-altitude and low-voltage testing machine



大电流短路试验机
High-current short-circuit testing machine



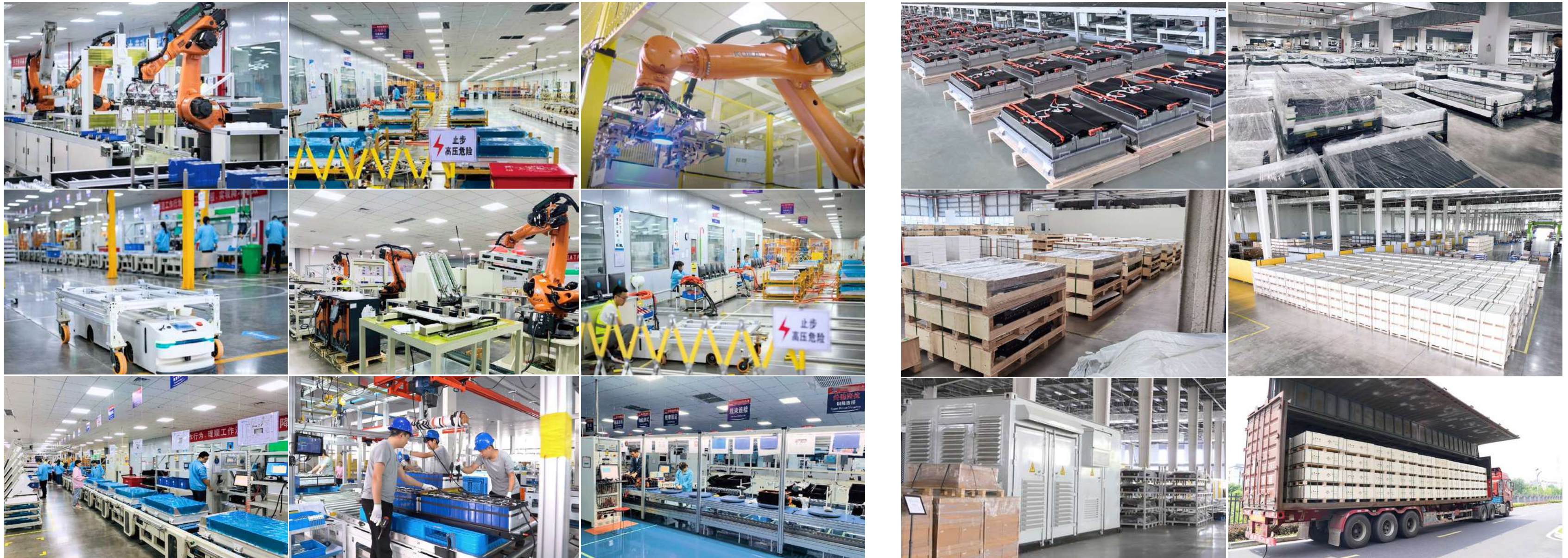
电池跌落试验机
Battery drop testing machine



Pack 充放电测试
Battery pack charge and discharge test

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.



MARINE POWER - STANDARD BATTERY STRING



Features

- Type approval by CCS
- The modular design facilitates transportation, installation, system construction, operation, and maintenance
- The integrate exhausted gas duct will reduce the risk of fire or explosion in the battery compartment
- Battery string level thermal management: Air cooling/liquid cooling optional
- C5 Enclosure anticorrosion class: Apply for inland river and ocean applications

Marine Standard Battery String

Nominal Voltage (V)	Number of Series(S)	Nominal Energy (kWh)
384.0	120	241.92
384.0	120	215.04
384.0	120	483.84
384.0	120	430.08
403.0	126	338.69
403.2	126	112.90
460.8	144	129.02
518.4	162	145.15
576.0	180	161.28
633.6	198	177.41
691.2	216	193.54
748.8	234	209.66
806.4	252	225.79
864.0	270	241.97
864.0	270	267.84

MARINE POWER - DNV, BV TYPE APPROVAL BATTERY STRING



Features

- Complete certification: type approval by DNV, BV
- Thermal management: liquid cooling + liquid heating
- Fire prevention and control, leakage detection to ensure safety
- C5 Enclosure anticorrosion class: Apply for inland river and Marine applications
- IP44 protection class: ensure the battery system operating environment

DNV, BV Type approval Marine Battery String

Cell	LF280K	LF280K
Connection Mode	1P270S	8P270S
Nominal Energy	241.92 kWh	1935.36 kWh
Battery String Size	1654*1085*2233mm	13232*1085*2233mm
Nominal Capacity	280Ah	2240Ah
Maximum Continuous Charge/Discharge Current	280Ah/280Ah	2240A/2240A
Nominal Voltage	864 VDC	864 VDC
Voltage Range	783-945 VDC	783-945 VDC
Weight	2000+50kg	16000 50kg
Communication Protocol	CAN/RS485	CAN/RS485
Explosion-proof design	Explosion-proof breather valve	Explosion-proof breather valve
Case Material	Welding of square steel	Welding of square steel
Protection Degree	IP44	IP44
Thermal Management	liquid cooling/heating	Liquid cooling/heating
BMS	Integrated BMS	Integrated BMS
Start Mode	Local+remote startup	Localremote startup
Alarm	Buzzer	Buzzer

MARINE POWER - HIGH C-RATE BATTERY MODULE & BATTERY STRING



Features

- **High C-rate:** up to 3C
- **Meet design requirements of the mainstream classification society**
- **Safety Ensure:** fire detection and leakage detection in pack
- **Temperature Control and Equalize:** efficient liquid cooling + active temperature equalization
- **C5 Enclosure Anticorrosion Grade:** apply for inland and marine

High C-rate marine battery module

Item	OE-B4-1P48S-11	OE-B4-2P24S-11
Cell	LF125P	LF125P
Configuration	1P48S	2P24S
Nominal Voltage	154.56 VDC	77.28 VDC
Operating Voltage Range	139.2 VDC-168 VDC	69.6 VDC-84 VDC
Charge and Discharge Rate	Max.3C	Max.1.5C
Capacity	125Ah	250Ah
Energy	19.32 kWh	19.32 kWh
Energy Density	125 Wh/Kg	125 Wh/Kg
Volume Density	150 Wh/L	150 Wh/L
Thermal Management	Top and bottom liquid cooling	Top and bottom liquid cooling
Service Life	≥6000, 70% EOL	≥6000, 70% EOL
Operating Temperature	-20-45°C	-20-45°C
Anticorrosion Grade	C5	C5
Max.Operating Altitude	2000m	2000m
Size (W*D*H)	900*674*196mm	900*674*196mm
Protection Rating	IP67	IP67

High C-rate marine battery string

Item	Parameters
Cell	LF125P
Connection Mode	1P288S
Nominal Energy	115.92 kWh
Battery String Size	1000*1000*2500
Nominal Capacity	125Ah
Maximum Continuous Charge/Discharge Current	≤375A
Nominal Voltage	927.36 VDC
Voltage Range	835.2-1008 VDC
Weight	1240+50kg
Communication Mode	CAN/RS485
Explosion-proof Design	Explosion-proof breath valve
Case Material	Welding of square steel
Anticorrosion Class	C5
BMS	Integrated BMS
Thermal Management	Double plate liquid cooling
Protection Degree	IP44
Start Mode	Local+ remote startup
Alarm	Buzzer

MARINE POWER BATTERY CONTAINER



Features

- High safety: A60 fireproof/ Flexible system configuration
- Supporting parallel connections between multiple containers
- Supporting battery-swapping O&M
- With liquid cooling for temperature equalization
- Standard interface output
- Large capacity configuration
- Compatibility with port shore power
- External dimension: 6058mm*2438mm*2591mm

Standard marine power container				
Nominal Voltage(VDC)	Voltage Range(VDC)	Nominal Capacity(Ah)	Nominal Energy(kWh)	Weight(T)
748	678~819	1400	1048	18.4
806	730~882		1128	19.0
864	783~945		1209	19.8
633	574~693	1680	1064	18.6
691	626~756		1161	19.3
748	678~819		1257	20.3
806	730~882		1354	21.0
864	783~945	1960	1451	21.8
576	522~630		1128	19.1
633	574~693		1241	20.2
691	626~756		1354	21.0
748	678~819		1467	22.0
806	730~882		1580	22.9
864	783~945	2240	1693	23.9
576	522~630		1290	20.5
633	574~693		1419	21.7
691	626~756		1548	22.7
748	678~819		1677	23.9
806	730~882		1806	24.8
864	783~945	2480	1935	27
806.4	730.8~882		1999.87	26
576	522~630	2520	1451	21.9
633	574~693		1596	23.3
691	626~756		1741	24.3
748	678~819		1886	25.7

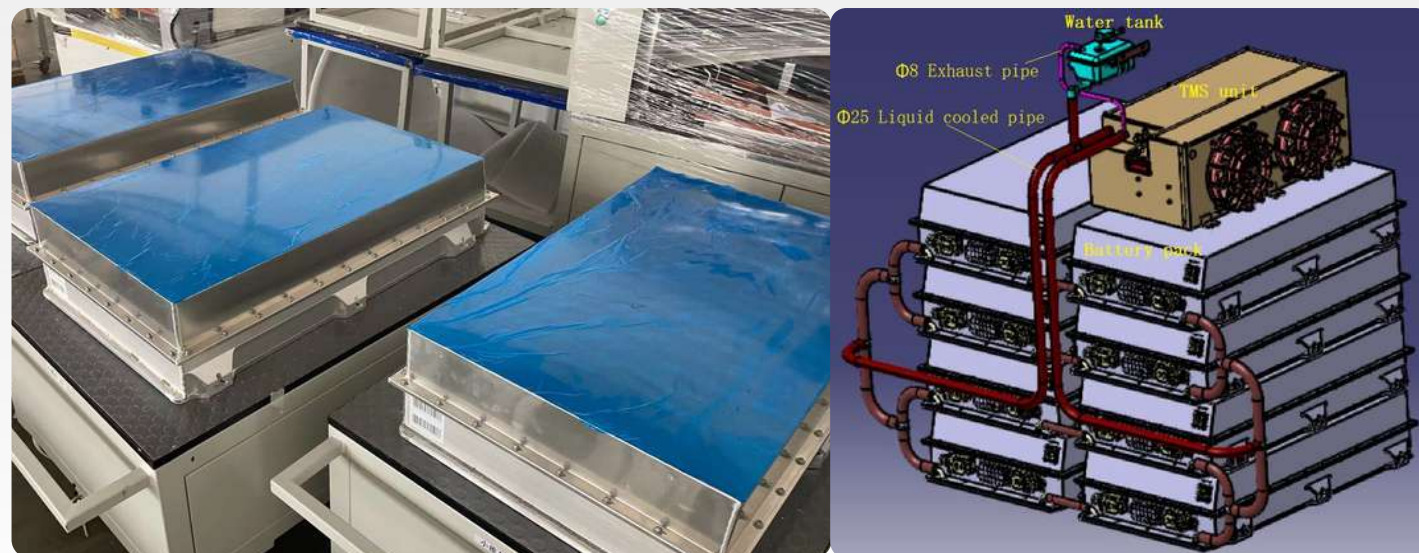
PROJECT CASES

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

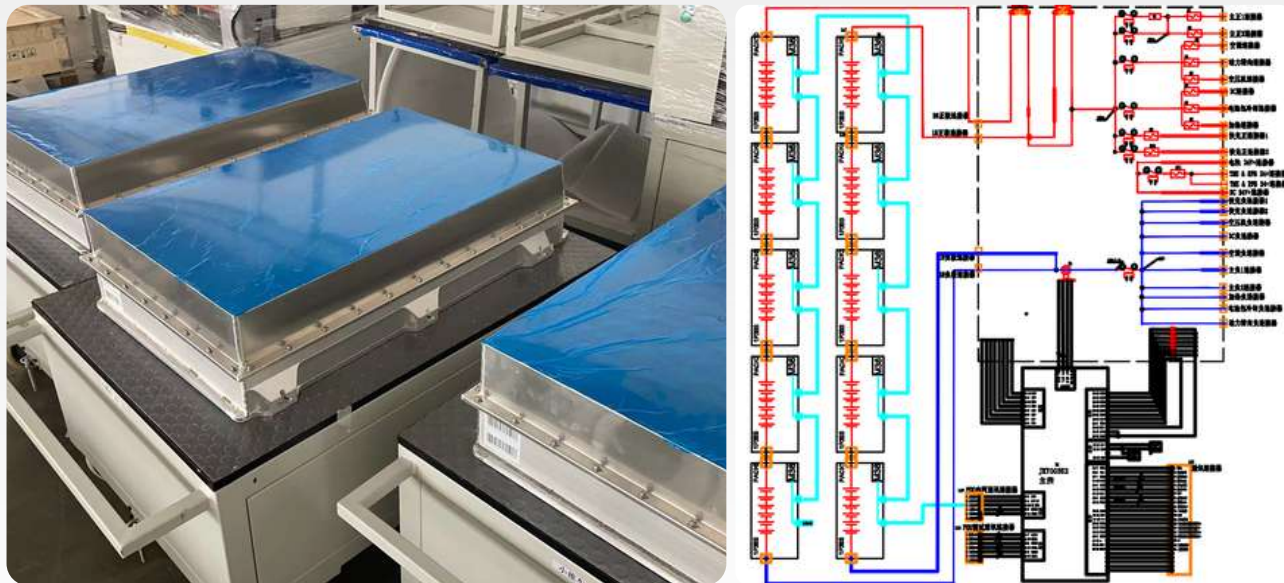


PROJECT CASES

350 kWh 576V Bus Battery

Middle East | 12m Bus

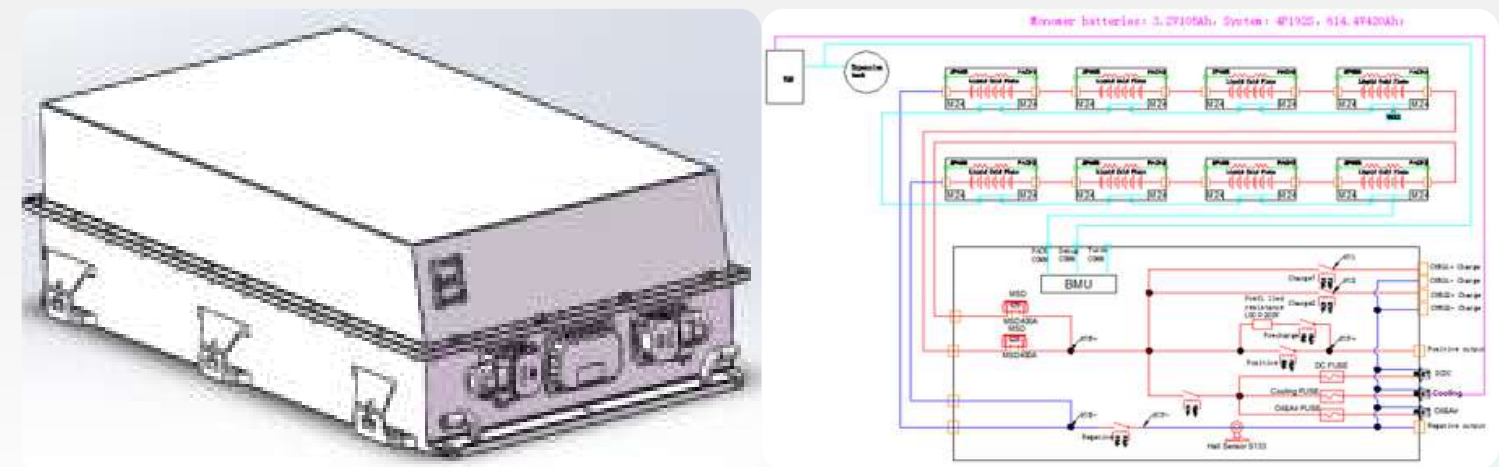
10 battery boxes ; BMS
System 576V 608Ah 350.21kWh



258 kWh 614V Train Battery

Indonesia | Train

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





PROJECT CASES

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



PROJECT CASES

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](#)



PROJECT CASES



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

PROJECT CASES



16.58 kWh
Fuel cell light truck



60.02 kWh
Fuel cell heavy truck



50 kWh - Street sweeper



41.6 kWh - Street sweeper



66.8 kWh
Aircraft towing tractor



46.6 kWh
Baggage belt loader



193.5 kWh
Airport ground power unit



266.4 kWh
Port AGV

PROJECT CASES



2240 kWh
Passenger ferry



3700 kWh
Pure electric bulk carrier



3400 kWh
Cruise ship



5161 kWh
Pure electric tugboat



1200 kWh
Farming platform



354 kWh
New energy reachstacker



7800 kWh
Electric container ship



145 kWh
Salmon farming boat



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