AOBOET

AOBO NEW ENERGY POWER CO., LTD.

2022

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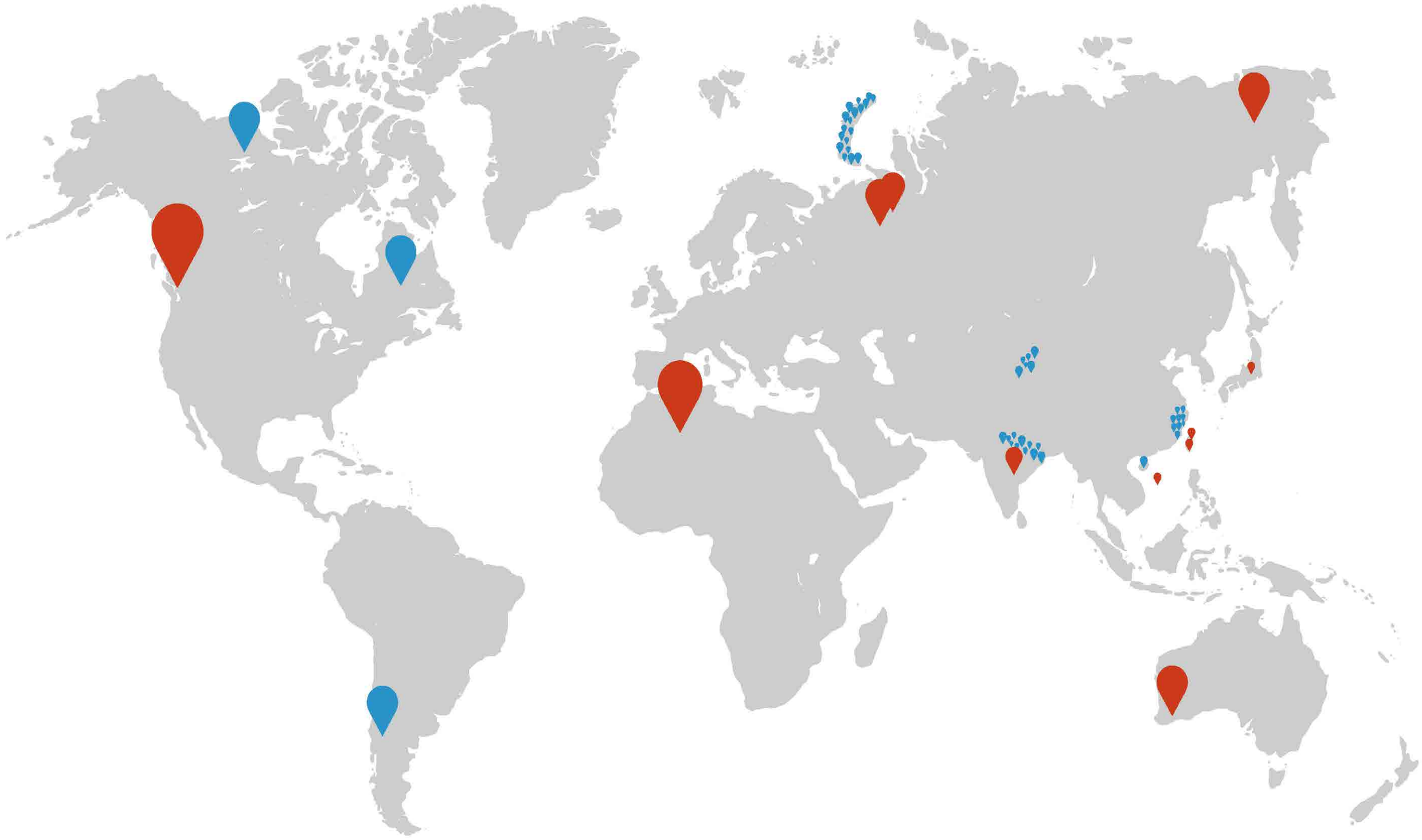

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About AOBO

Aobo founded in 1999, located in Huishan District, Wuxi City, China; established the Energy Storage Business Unit in Feb 2018 and registered Aobo Australia company in Oct 2018; Aobo is a leading supplier of solutions for renewable energy and environmental protection industry. Following the concept of “bearing in mind the mission of satisfying customers’ demands and customizing high-quality products for customers”, Aobo is a state-level high-tech enterprise with the ability of intelligent creation. Aobo has owned certificates as National-level high-tech enterprise, Jiangsu high-tech product certificate, TUV certificate, CE certificate; in addition, it has also registered AOBOCS and AOBOET trademarks in Korea, EU and Australia, possessed 33 inventions, utility model and appearance patents.

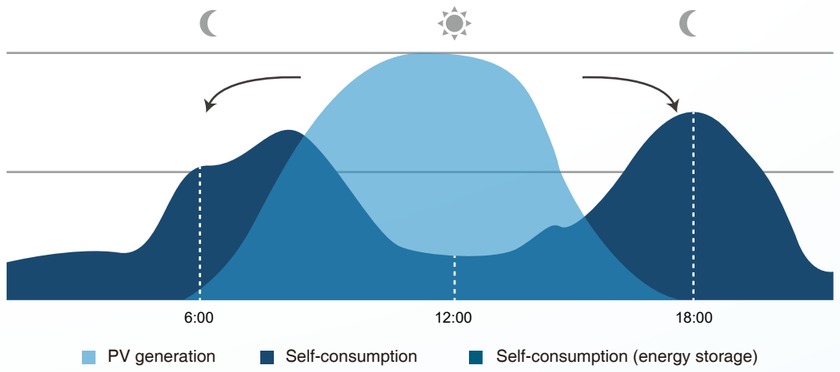
Aobo’s products including energy storage lithium batteries, energy-saving & air treatment equipment; they have been widely applied to such industries as residential/ C&I energy storage, electronics, chip, and sold abroad in Australia, Europe, America and other countries and regions. Aobo also provides customized product service(OEM/ODM), which also won the praise of related customers.

AOBO Products

- Utility Energy Storage Solution
- Residential Energy Storage Solution
- IDC Backup Power Solution
- C&I Energy Storage Solution

Residential Energy Storage Solution

Integrated with lithium-ion battery energy storage system and home energy management system, the solution is expandable on demand and has a variety of combinations. Flexible, efficient and customized products and services, it is friendly to home users to build a clean, independent and economic micro-grid.



AOBO Features

More Usable Energy
100% Depth of Discharge
Pack Level Energy Optimization

Flexible Investment
Modular Design,
Scalable from 8 to 64 pcs installation

Safe & Reliable
Lithium Iron Phosphate (LFP) Cell

Easy Installation
Plug in & off

Quick Commissioning
Automatically Detected in App

Perfect Compatibility
Compatible to Both Residential
Single or Three Phase Inverter

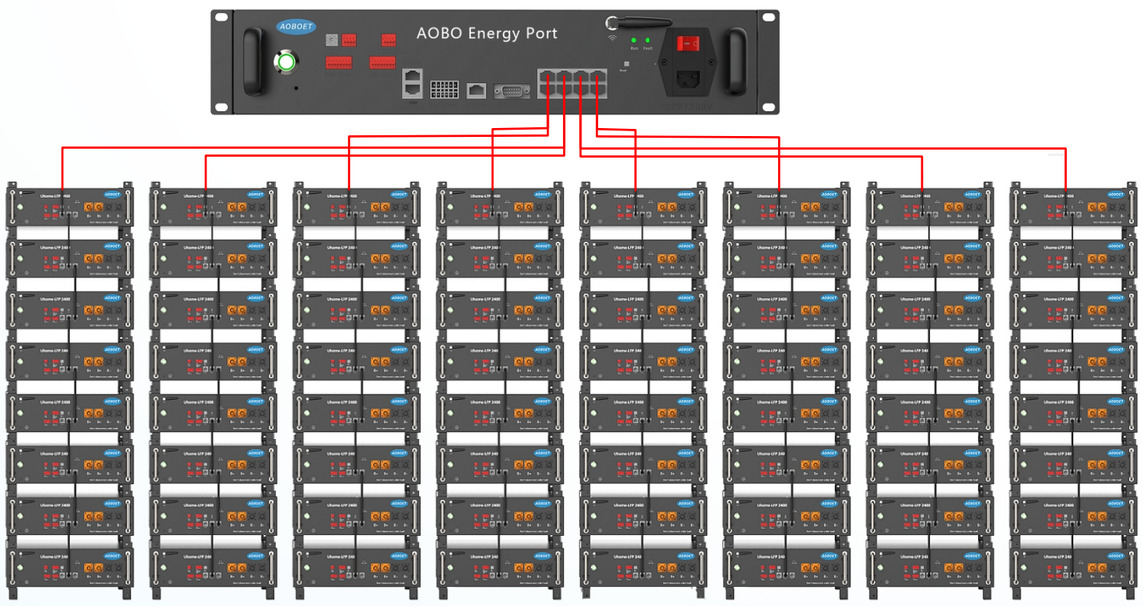
Rack-Mounting Energy Storage System

Uhome-LFP 5000

Uhome-LFP 2400

Uhome-LFP 2500

Uhome-LFP 2600



Key Features

- Assemblly freely in series or parallel
  Up to 8S8P(614.4V362.4kWh)
- High energy efficiency
  Energy efficiency(charge and discharge)>97%
- High Rate Charge & Discharge
  Max charge current 30A,Max discharge current 40A
- More Safety
  Dual hardware & Triple software protection
- Safe and Reliable BMS
  Relay design instead of mosfet
- Long Life
  Reliable LFP cells,Cycle life >6000 cycles
- High Reliability
  Key devices(Relay,Fuse) approved by UL and IEC
- More Smart
  With digital monitor system App with WIFI
- Smart Design & Easy installation
  Plug in & off
- More Quiet
  Without fan,more quiet and reduce the risk of fan failure

Technical Properties

Model		Uhome-LFP 5000	Uhome-LFP 2400	Uhome-LFP 2500	Uhome-LFP 2600
Total Energy*		5kWh	2.4kWh	2.5kWh	2.56kWh
Usable Energy(DC)*		4.6kWh	2.2kWh	2.2kWh	2.2kWh
Nominal Dis-/Charge Power		3.0kW	1.5kW	1.5kW	1.5kW
Peak Power(Only Discharge)		6kWh for 3 seconds	6kWh for 3 seconds	6kWh for 3 seconds	6kWh for 3 seconds
Constant Current(Only Discharge)		80A	40A	40A	20A
Voltage		48~56Vd.c	48~56Vd.c	48~56Vd.c	96~112Vd.c
Nominal Voltage		51.2Vd.c	51.2Vd.c	51.2Vd.c	102.4Vd.c
Nominal Current		60A	30A	30A	15A
Max. Charge Voltage		57.6Vd.c	54.0Vd.c	57.6Vd.c	115.2Vd.c
Weight		45kg	27.5kg	23kg	24kg
Dimension(mm)		500*448*135mm	500*442*133mm	500*442*88mm	500*442*88mm
Max.recommended DOD		90%			
Operating Condition		Indoor			
Operating Temperature	Charge	From 0~45℃			
	Discharge	From -10~55℃			
WIFI Frequency Range		2400MHz~2483MHz			
Humidity		＜60%(No condensed water)			
Pollution Degree		3			
Over Voltage Category		II			
Cooling Type		Natural cooling			
Case Material		Metal			
Color		Black or White			
Installation		Wll mounting/Ground Installation			
IP rating		IP 20			
Protective Class		I			
Max. Connection Number		8S/4P	8S/8P	8S/8P	6S
Warranty		10 years			
Life Span		>15 years			
Communication		CAN/ RS485			
Protection Mode		Dual hardware protection			
Battery Protection		Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature			
Safety		Cell UL 1973	Cell UL 1973	Cell TUV	Cell TUV
		CE	Pack TUV/CE	CE	CE
Hazardous Material Classification		9			
Transportation		UN 38.3			

Testing conditions based on temperature 25℃ at the beginning of life.

*Total Energy/Usable Energy measured under specific conditions from AOBOET 0.2C CC-CV

PowerWall Energy Storage System

Uhome-LFP
5kWh/LV

Uhome-LFP
5.8kWh/LV

Uhome-LFP
10kWh/LV

Technical Properties

Model		Uhome-LFP 5kWh/LV	Uhome-LFP 5.8kWh/LV	Uhome-LFP 10kWh/LV
Total Energy*		5.1kWh	5.8kWh	10kWh
Usable Energy(DC)*		4.8kWh	5.3kWh	9.2kWh
Nominal Dis-/Charge Power		3.0kW	2.75kW	4.6kW
Peak Power(Only Discharge)		7kW for 3s	7kW for 3s	10kW for 3s
Constant Current(Only Discharge)		100A	100A	120A
Voltage		48~56Vd.c	42~54Vd.c	48~56Vd.c
Nominal Voltage		51.2Vd.c	48Vd.c	51.2Vd.c
Nominal Current		60A	57A	90A
Max. Charge Voltage		57.6Vd.c	54.0Vd.c	57.6Vd.c
Weight		55kg	66kg	101kg
Dimension(mm)		525*537*238mm	525*635*238mm	525*820*238mm
Max.recommended DOD		90%		
Operating Condition		Indoor or outdoor		
Operating Temperature	Charge	From 0~50℃		
	Discharge	From -10~50℃		
WIFI Frequency Range		2400MHz~2483MHz		
Humidity		4~100%(No condensed water)		
Pollution Degree		3		
Over Voltage Category		II		
Cooling Type		Natural cooling		
Case Material		Metal + Plastic		
Color		Black+Silver grey or White		
Installation		Free standing		
IP rating		IP 65		
Protective Class		I		
Max. Number of Parallel or Series		4		
Warranty		10 years		
Life Span		>15 years		
Communication		CAN/ RS485		
Protection Mode		Triple hardware protection		
Battery Protection		Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature		
Safety		Cell UL 1973	Cell UL 1973	Cell UL 1973
		CE	Pack TUV/CE	CE
Hazardous Material Classification		9		
Transportation		UN 38.3		

Testing conditions based on temperature 25℃ at the beginning of life.

*Total Energy/Usable Energy measured under specific conditions from AOBOET 0.2C CC-CV

Key Features

- Digital monitoring system APP
- High inverter compatibility
- High quality LFP cells
- CANbus standard connection
- Natural cooling system
- Scalable up to 20-40kWh（4 Parallel)
- 10 Years limited warranty
- IP65

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Stackable Modular Energy Storage System

Key Features

- Visual interface, real-time monitoring of product status One
- Master BMS and slave BMS in each battery module
- 10 Years Limited Warranty
- Easy installation and capacity expansion
- High quality LFP battery cell

SHARED AND BEYOND

Technical Properties

Model	2.4kWh	4.8kWh	7.2kWh	9.6kWh	12kWh	14.4kWh	16.8kWh	19.2kWh
Nominal Capacity	2.4kWh	4.8kWh	7.2kWh	9.6kWh	12kWh	14.4kWh	16.8kWh	19.2kWh
Size (L × W ×H) (mm)	650 x300x395	650x300x575	650x300x755	650x300x935	650x300x1115	650x300x1295	650x300x1475	650x300x1655
Weight	32kg	56kg	80kg	104kg	128kg	152kg	176kg	200kg
Maximum Usable Capacity	2.2kWh	4.4kWh	6.6kWh	8.8kWh	11kWh	13.2kWh	15.4kWh	17.6kWh
Rated Discharge/ Charge Current	30A	60A	90A	100A	100A	100A	100A	100A
Nominal Dis-/ Charge Power	1.4kW							
Peak Power(Only Discharge)	2.9kW for 3s							
Voltage	45~52.5Vd.c							
Nominal Battery Operating Voltage	48V							
Nominal Current	30A							
Max. Battery Voltage	51.75V							
Max.recommended DOD	90%							
Operating Condition	Indoor or outdoor							
Operating Temperature	From -10~50 C							
WIFI Frequency Range	2400MHz~2483MHz							
Humidity	<60%(No condensed water)							
Pollution Degree	3							
Over Voltage Category	II							
Cooling Type	Natural cooling							
Case Material	Aluminium alloy							
IP rating	IP 65							
Effciency	96%							
Protective Class	I							
Max. Number of Parallel	8S/8P							
Warranty	10 years							
Life Span	>15 years							
Communication	CAN/ RS485							
Battery Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature							
Hazardous Material Classification	9							
Transportation	UN 38.3							
Certification & Safety Standard								

Testing conditions based on temperature 25 C at the beginning of life.

*Total Energy/Usable Energy measured under specific conditions from AOBOET 0.2C CC-CV

Stackable Modular Energy Storage System

Uhome-LFP
4.8 kWh*1

Uhome-LFP
4.8 kWh*2

Uhome-LFP
4.8 kWh*3

Uhome-LFP
4.8 kWh*4

Key Features

- Visual interface, real-time monitoring of product status
- One master BMS and slave BMS in each battery module
- 10 Years Limited Warranty
- Easy installation and capacity expansion
- High quality LFP battery cell

SHARED AND BEYOND

Technical Properties

Items	4.8kWh	9.6kWh	14.4kWh	19.2kWh
Nominal Capacity	4.8kWh	9.6kWh	14.4kWh	19.2kWh
Size (L × W ×H)(mm)	650x300x475	650x300x740	650x300x1005	650x300x1270
Weight	46kg	84kg	122kg	160kg
Maximum Usable Capacity	4.4kWh	8.8kWh	13.2kWh	17.6kWh
Rated Discharge/ Charge Current	60A	100A	100A	100A
Nominal Dis-/Charge Power	2.8kW			
Peak Power(Only Discharge)	4.8kW for 3s			
Voltage	45~52.5Vd.c			
Nominal Battery Operating Voltage	48V			
Nominal Current	30A			
Max. Battery Voltage	51.75V			
Max.recommended DOD	90%			
Operating Condition	Indoor or outdoor			
Operating Temperature	From -10~50℃			
WIFI Frequency Range	2400MHz~2483MHz			
Humidity	<60%(No condensed water)			
Pollution Degree	3			
Over Voltage Category	II			
Cooling Type	Natural cooling			
Case Material	Aluminium alloy			
IP rating	IP 65			
Effciency	96%			
Protective Class	I			
Max. Number of Parallel	4S/8P			
Warranty	10 years			
Life Span	>15 years			
Communication	CAN/ RS485			
Battery Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature			
Hazardous Material Classification	9			
Transportation	UN 38.3			
Certification & Safety Standard				

Testing conditions based on temperature 25℃ at the beginning of life.

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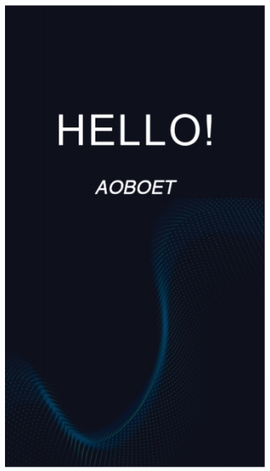
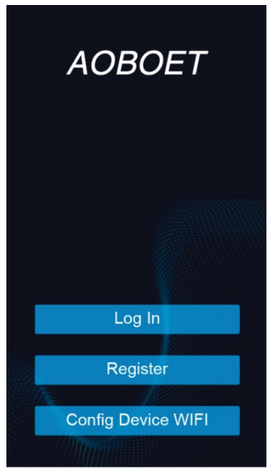
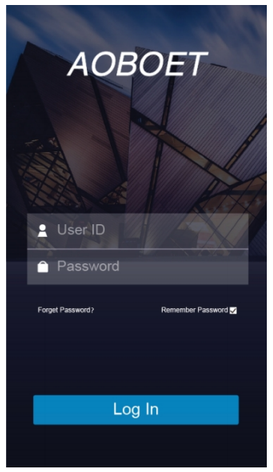
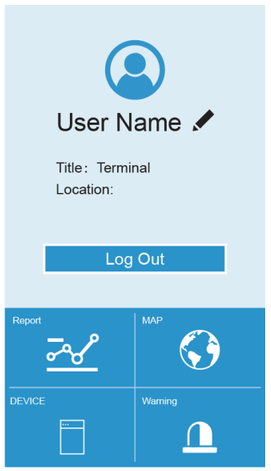
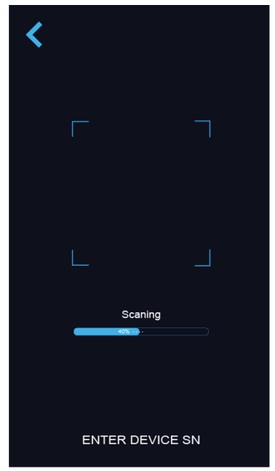
AOBO Monitoring System

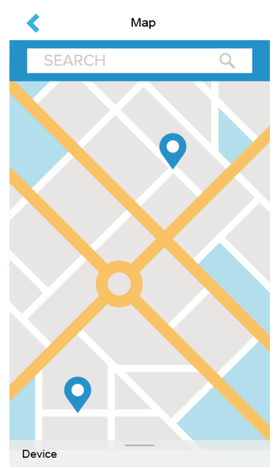


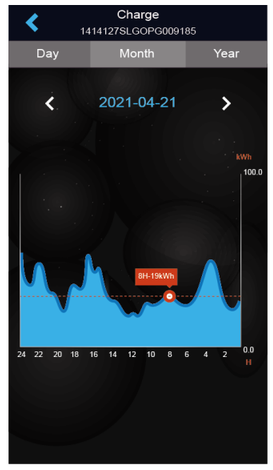


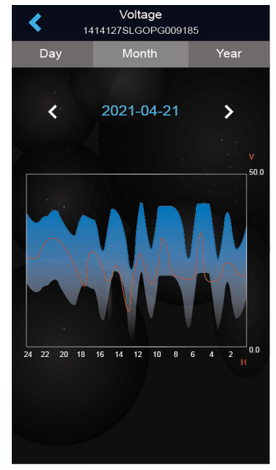


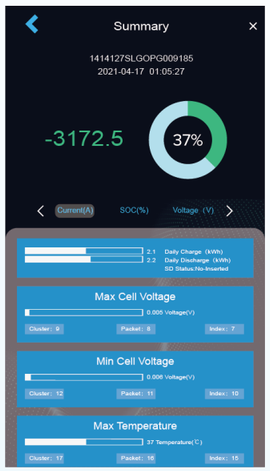


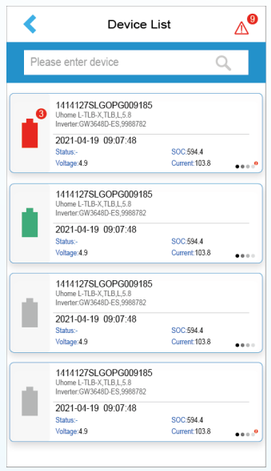


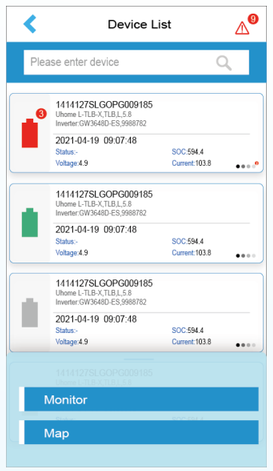


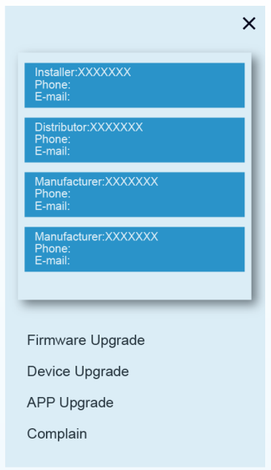


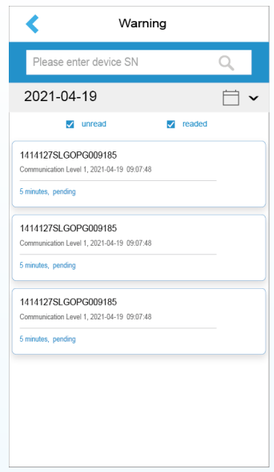


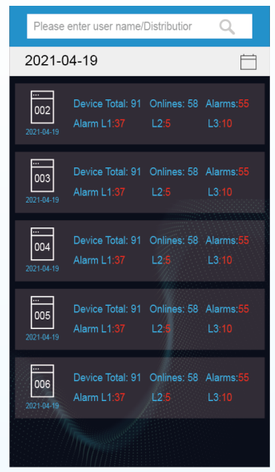


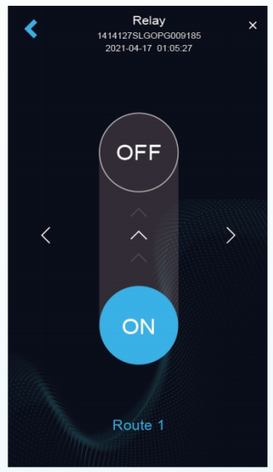


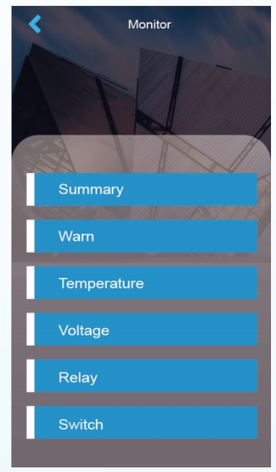












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