

Pursue A Green Life

Shenzhen Polinovel Tech Co., Ltd

Reliable Manufacturer . China 2023 Version



Contents

Ol About Us

02 Our Products

03 Our Projects

04 Mar

Market Performance

About Polinovel

Who We Are

Polinovel is an innovative company integrating the design, development, manufacturing, and sales of lithium batteries in China, committed to providing professional, safe, and reliable clean energy solutions and services worldwide.

2006 10000_{m2} Established Floorspace

50. 80. R&D Engineers Export Coverage



◆ Electric Vehicles

Provide lithium battery products and services for electric vehicles from land to sea.

◆ Energy Storage Systems

Provide lithium battery solutions and services for clean energy storage systems.

Battery
Cell
Lifepo4
Cylindrical
Prismatic

Battery
Module
BMS
Components
Battery
Compone

Material

Innovation in material and chemistry

Technology Intelligent technology

Intelligent technology innovation



DesignStructure des

Structure design innovation

Manufacturing

Exquisite manufacturing innovation

R&D Capability



100% Proprietary Technology

50₊ R&D Engineers

Continuous research in materials, structure design, production process, and product innovation to provide customers with market-oriented reliable lithium batteries and solutions comprehensively enhance the core competitiveness.









Material Structure Design Produc

Production Process Product Innovation

Quality Assurance

◆ Exquisite Manufacturing

Compliance rate of battery pack reaches 100%.









◆ Comprehensive Testing

Multi-Level Testing

Materials, Cells, Modules, BMS, Packs

Multi Dimensional Testing

Structure, Craft, Electrical Performance, Safety

International Standards

Comply with international industry ISO, GB/T, CE, MSDS, UN38.3 standards







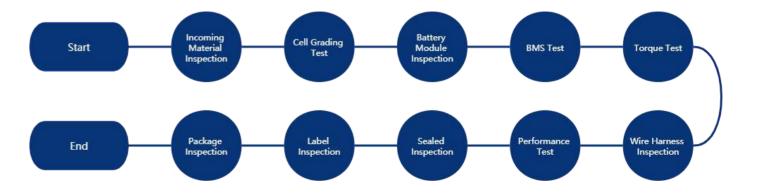






◆ Quality Control System

From incoming materials and production to delivery, the whole process contains 10 rounds of inspection and testing to ensure battery quality.



◆ International Certifications







IS09001 IS014001







Emark







UN38.3-Sea UN38.3-Air Insurance

Competitiveness

◆ Safety And Reliability

From incoming materials and production to delivery, the whole process contains 10 rounds of inspection and testing to ensure battery quality.







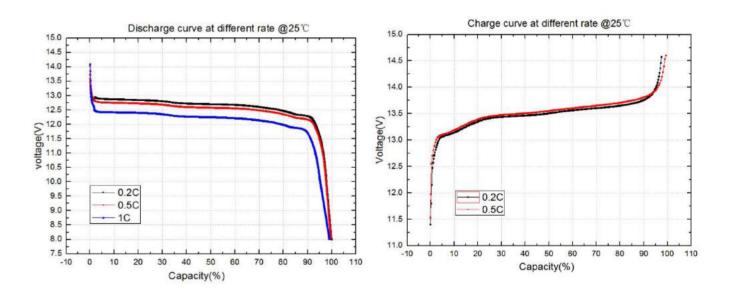
Material Safety

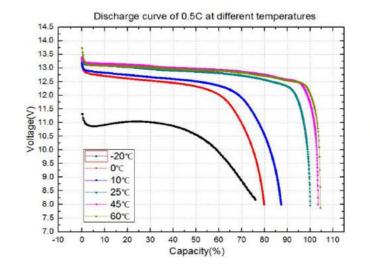
System Safety

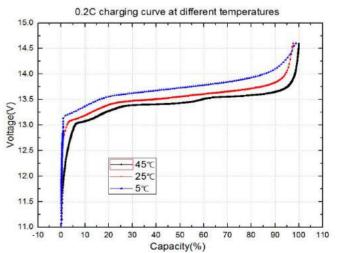
Electrical Safety

◆ Long Service Life

Provide lithium batteries that deliver high performance, maximum usable energy, and long service life of 10+ years.







◆ Innovative Technology

Polinovel successfully developed Bluetooth monitoring, self-heated function, RS232, RS485, CANbus, WiFi, and GPRS communication technology on lithium batteries and stay at the forefront of market trends.









RS485







LCD Display

Bluetooth

Self-heated

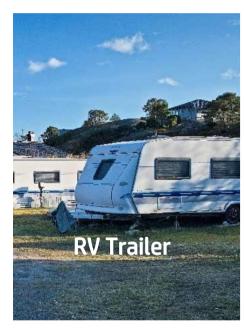
CANbus

WiFi

GPRS

◆ Flexible Application

Polinovel lithium battery solutions are suitable for various scenarios such as camping, fishing, sailing, short-distance riding, material handling, floor cleaning, and residential power supply.













Five Star Service From Start To Finish

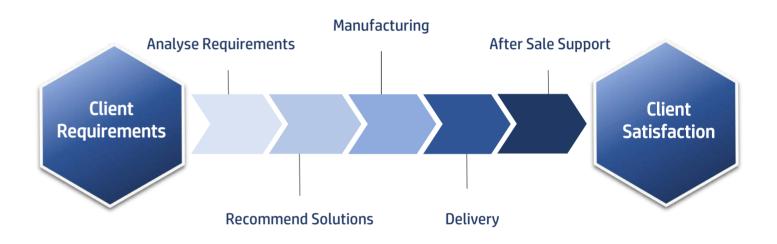


Professional

◆ Efficient

♦ Comprehensive

Polinovel maintain a customer-centric service attitude whenever and wherever we can. We firmly believe that providing customers with good products and services to help customers succeed is the surest way to achieve win-win cooperation in the long term.



Pre-sale Service

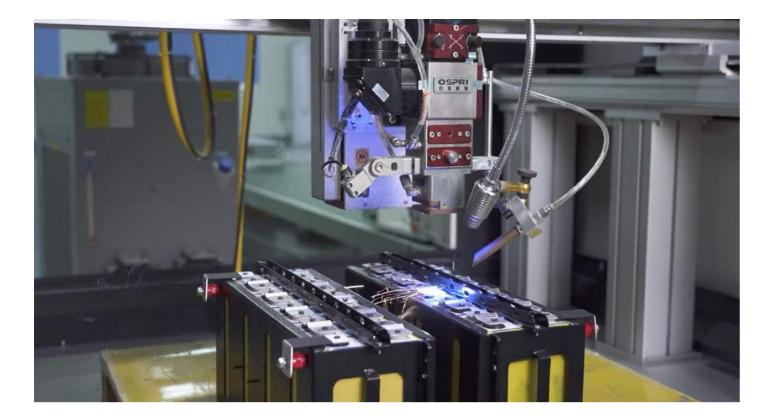
Project manager and engineers work with the customers to create the most feasible lithium battery solutions.

Sales Service

Technical engineers follow up on the production, debugging, assembly, and testing processes to ensure the quality of inspection.

After-sale Service

Experienced service team provides 7x24 online technical support and guidance to give quick response on battery use, maintenance and repair questions.



Trusted Lithium Batteries You Can Count On

Lithium batteries have replaced lead-acid batteries becoming the mainstream battery in the industry. Polinovel develops and manufactures lithium electric vehicle batteries and lithium energy storage batteries for various applications, like RV, marine, golf cart, forklift, floor scrubber, AGV, and household energy storage systems, helping to optimize the energy structure and reduce the cost of energy use.









Exquisite Customization

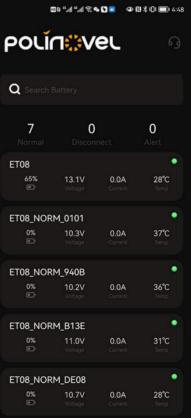
With extensive experience in lithium batteries, Polinovel understands customers and market requirements well, and provides satisfactory solutions.

What Can Be Customized?



Bluetooth Monitor APP





LCD Indicator



Custom Label





BL Series | Bluetooth Lithium Battery

Polinovel BL series smart lithium iron phosphate (Lifepo4) battery with Bluetooth is designed for drop-in replacement of deep cycle lead acid batteries with the standard BCI group size. It offers excellent cycle life, lighter weight, more usable energy, and superior performance. The BMS with Bluetooth technology enables you to check the battery's real-time working status and turn on/off the discharge remotely on your phone.

Key Features

Monitor battery status on your phone

Remotely control battery power on-off

View multiple batteries at once

BT5.0 operate in greater distance >10m

IP65 waterproof suitable for outdoor scenarios

Support series or parallel connection

Battery Specification

Model	Nominal Voltage	Nominal Capacity	Energy	Recomme nd Charge Voltage	Discharge Cut-off Voltage	Max. Charge Current	Max. Constant Discharge Current	Dimension (L*W*H) mm/in	Weight kg/lbs	Qty/20GP pcs	Qty/40GP pcs
BL1254	12.8V	54Ah	691Wh	14.6V	10V	50A	50A	231*145*211 9.1*5.7*8.3"	8kg/18lbs	1200	2400
BL12100	12.8V	100Ah	1280Wh	14.6V	10V	100A	100A	329*172*214 13*6.8*8.4"	14.3kg/32lbs	720	1440
BL12150	12.8V	150Ah	1920Wh	14.6V	10V	100A	150A	485*170*220 19.1*6.7*8.7"	20kg/44lbs	480	960
BL12200	12.8V	200Ah	2560Wh	14.6V	10V	100A	200A	522*240*218 20.6*9.4*8.6"	27kg/60lbs	360	720
BL12300	12.8V	300Ah	3840Wh	14.6V	10V	100A	200A	522*269*218 20.6*10.6*8.6"	35kg/77lbs	360	690
BL12400	12.8V	400Ah	5120Wh	14.6V	10V	100A	200A	522*269*218 20.6*10.6*8.6"	43kg/95lbs	360	550
BL12450	12.8V	450Ah	5760Wh	14.6V	10V	100A	200A	640*245*220 25.2*9.6*8.7"	48kg/106lbs	240	480
BL2450	25.6V	50Ah	1280Wh	29.2V	20V	50A	50A	329*172*214 13*6.8*8.4"	14.3kg/32lbs	720	1440
BL24100	25.6V	100Ah	2560Wh	29.2V	20V	100A	100A	522*240*218 20.6*9.4*8.6"	27kg/60lbs	360	720
BL24150	25.6V	150Ah	3840Wh	29.2V	20V	100A	100A	522*269*218 20.6*10.6*8.6"	35kg/77lbs	360	690
BL24200	25.6V	200Ah	5120Wh	29.2V	20V	100A	100A	522*269*218 20.6*10.6*8.6"	43kg/95lbs	360	550
BL3640	38.4V	40Ah	1536Wh	43.8V	30V	40A	40A	329*172*214 13*6.8*8.4"	15kg/33lbs	720	1440
BL3650	38.4V	50Ah	1920Wh	43.8V	30V	50A	50A	485*170*220 19.1*6.7*8.7"	20kg/44lbs	480	960
BL3660	38.4V	60Ah	2304Wh	43.8V	30V	50A	50A	485*170*220 19.1*6.7*8.7"	23kg/51lbs	480	960
BL36100	38.4V	100Ah	3840Wh	43.8V	30V	100A	100A	522*269*218 20.6*10.6*8.6"	35kg/77lbs	360	690

General Data

Casing Material	ABS
IP Rating	IP65
Battery Type	Lithium Iron Phosphate (LiFePO4)
Self Discharge Per Month	<3%
Charge Temperature	0 to 45 ° C
Discharge Temperature	-20 to 60 ° C
Storage Temperature	0 to 40 º C

 $Specifications \ subject \ to \ change \ without \ notice, \ please \ contact \ us \ to \ get \ the \ lastest \ information.$



SALES@POLINOVEL.COM | POLINOVEL.COM

BL SERIES DATASHEET





Polinovel GOLF Series lithium batteries are specially designed to meet the power and energy requirements of golf carts, and utility vehicles. With the features of lightweight, long life, high performance, and zero maintenance, the Golf Series battery allow you to enjoy more mileage, more freedom on or off the green, and save more maintenance cost.

GOLF Series | Lithium Battery

Key Features

Robust construction designed to endure

Customized size for dropin installation Plug-and-play gauge provides real-time SOC

Battery Specification

Model	Golf36105	Golf4830	Golf4866	
Nominal Voltage	38.4V	51	.2V	
Nominal Capacity	105Ah	30Ah	66Ah	
Energy	4032Wh	1536Wh	3379Wh	
Standard Charge Voltage	43.8V	58	.4V	
Discharge Cut-off Voltage	30V	40	OV	
Standard Charge Current	50A	15A	30A	
Max. Charge Current	100A	30A	60A	
Max. Constant Discharge Current	150A	50A	100A	
Peak Discharge Current	320A @30s	100A	220A @30s	
Dimension	436*334*243mm 17.2*13.1*9.6in	260*180*245mm 10.2*7.1*9.6in	464*334*243mm 18.3*13.1*9.6in	
Weight	40kg/88.2lbs	15.5kg/34.2lbs	40kg/88.2lbs	
Qty/20GP/40GP	300pcs/520pcs	900pcs/1500pcs	300pcs/520pcs	
Case Material	Metal	Plastic	Metal	
Cycle Life	>2500 (1C@ DOD100%); >4000 (0.2C@ DOD100%)			
Temperature	Charge: 0~60°C, Discharge: -20~ 60°C, Storage: 10~ 45°C			

Model	Golf48105 Golf48160		Golf72105		
Nominal Voltage	51	73.6V			
Nominal Capacity	105Ah	105Ah			
Energy	5376Wh	8192Wh	7728Wh		
Standard Charge Voltage	58	4V	83.95V		
Discharge Cut-off Voltage	40	V	57.5V		
Standard Charge Current		50A			
Max. Charge Current	100A				
Max. Constant Discharge Current	200A				
Peak Discharge Current	420A @30s				
Dimension	520*334*243mm 20.5*13.1*9.6in	674*334*243mm 26.5*13.1*9.6in			
Weight	50kg/110lbs	70kg/154.3lbs	78kg/172lbs		
Qty/20GP/40GP	225pcs/410pcs	150pcs/270pcs	170pcs/240pcs		
Case Material	Metal				
Cycle Life	>2500 (1C@ DOD100%); >4000 (0.2C@ DOD100%)				
Temperature	Charge: 0~60°C, Discharge: -20~ 60°C, Storage: 10~ 45°C				

Specifications subject to change without notice, please contact us to get the lastest information.





WALL Series | Energy Storage Battery

Polinovel WALL Series is a high-performance lithium battery that utilizes the safe lithium iron phosphate (LiFePO4) technology, works together with the inverter, and stores energy from solar production to provide power for the home, which reduces your electricity reliance on the grid, and the independent backup energy can protect your home from the outage. Its compact design and scalable feature allow for simple installation to suit various home energy needs.

Key Features

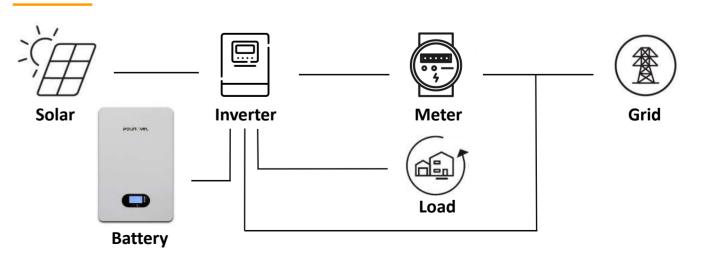
Compact design for easy installation on wall or ground

Scalable battery allows 15 units in parallel connection Friendly communication compatible with 20+ inverter brands

Battery Specification

Model	WALL5	WALL8	WALL10
Nominal Voltage		51.2V	
Nominal Capacity	100Ah 150Ah		200Ah
Energy	5.12kWh	7.68kWh	10.24kWh
Charge Cut-off Voltage		58V	
Discharge Cut-off Voltage		40V	
Standard Charge Current	30A/100A	45A/100A	60A/100A
Max. Charge Current	50A/100A	75A/150A	100A/200A
Max. Constant Discharge Current	150A	200A	200A
Peak Current	200A 300A		300A
Max. Modules in Parallel		15pcs in parallel	
Communication		RS485/RS232/CAN	
Dimension	535*455*145mm 21.1*17.9*5.7in	670*540*170mm 26.4*21.3*6.7in	870*465*145mm 34.3*18.3*5.7in
Weight	49kg/108lbs	72kg/158.7lbs	94kg/207.2lbs
Qty/20GP/40GP	250pcs/420pcs	180pcs/260pcs	140pcs/200pcs
Temperature	Charg	e: 0~50°C; Discharge: -15-	- 60℃

Specifications subject to change without notice, please contact us to get the lastest information.







SUPER Series | Energy Storage Battery

Polinovel SUPER Series is a super thin lithium battery that utilizes lithium iron phosphate (LiFePO4) chemistry, secured by self-developed automotive grade BMS technology, that brings reliable performance and safety to your home energy storage system. The slim size suits for wall or ground installation to save more space in the home. The SUPER battery features a touch LCD display screen that allows you to check the battery's working status in real time.

Key Features

75mm super thin design for save more installation space

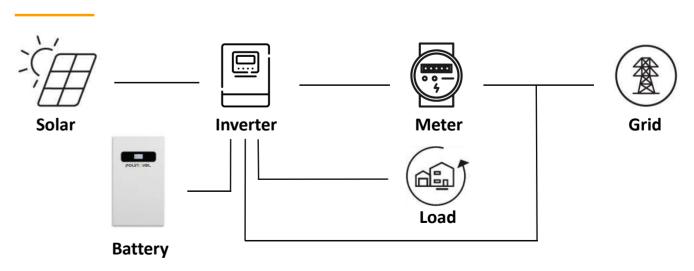
Expandable capacity allows 15 units in parallel connection

Friendly communication compatible with branded inverters

Battery Specification

Model	Super5 Super10			
Nominal Voltage	51.2V			
Nominal Capacity	100Ah	200Ah		
Energy	5.12kWh	10.24kWh		
Charge Cut-off Voltage	58.	.4V		
Discharge Cut-off Voltage	40V			
Charge Current	100A			
Max. Constant Discharge Current	100A			
Max. Modules in Parallel	15pcs in	parallel		
Communication	RS485/RS	5232/CAN		
Dimension (L*H*D)	590*1050*75mm 590*1050*150mm 23.2*41.3*3in 23.2*41.3*5.9in			
Weight	50kg/110lbs 100kg/220.5lbs			
Qty/20GP/40GP	160pcs/320pcs 110pcs/190pcs			
Temperature	Charge: 0~60°C; Discharge: -20~ 60°C; Storage: 0~ 45°C			

Specifications subject to change without notice, please contact us to get the lastest information.







VERTICAL Series | Energy Storage Battery

Polinovel Vertical Series is a high-performance lithium battery that reduces your reliance on the grid by storing solar energy for use when the sun isn't shining or the grid goes down. Use the VERTICAL battery combine with an inverter to power your home during an outage.

Key Features

Household design with LCD display

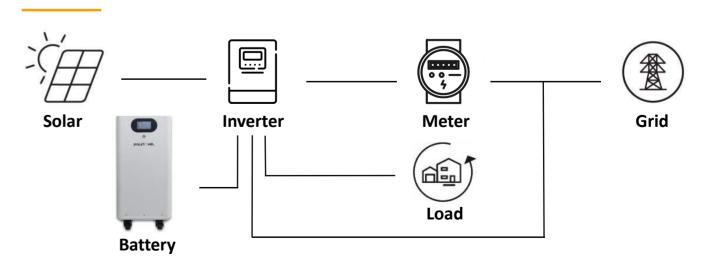
Hidden wires, bottom wheels for simple install moving

Compatible with 20+ inverter brands

Battery Specification

Model	Vertical15 Vertical20		Vertical25		
Nominal Voltage		51.2V			
Nominal Capacity	300Ah	400Ah	500Ah		
Energy	15.36kWh	20.48kWh	25.6kWh		
Charge Cut-off Voltage		58V			
Discharge Cut-off Voltage		40V			
Standard Charge Current	100A				
Max. Charge Current	200A				
Max. Constant Discharge Current	200A				
Peak Current	300A				
Communication		RS485/CAN			
Dimension	420*300*900mm 16.5*11.8*35.4in	420*500*1025mm 16.5*19.7*40.4in			
Weight	140kg/309lbs	175kg/386lbs	220kg/485lbs		
Qty/20GP/40GP	95pcs/130pcs	44pcs/88pcs	44pcs/85pcs		
Temperature	Charg	e: 0~50°C; Discharge: -15~	. 60℃		

Specifications subject to change without notice, please contact us to get the lastest information.







STK Series | Energy Storage Battery

Polinovel STK Series is a stackable lithium home energy storage battery, that inherits a modular design concept, combined with easy installation, and simple connection, that enables you to customize the solar system to suit any renewable energy needs with ease. The innovative parallel-connection technology, no wiring, no DIP setting required, truly realizes the free battery system combination to save your labor and time during transport and installation.

Key Features

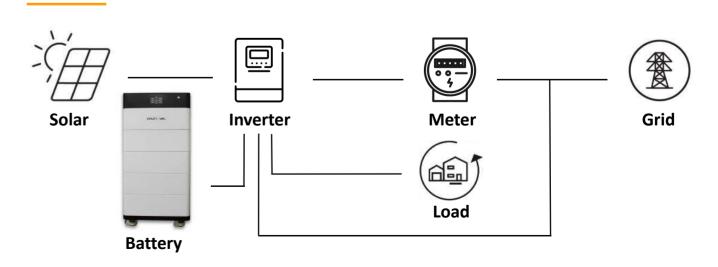
Stackable modular design for simple installation

Scalable battery allows 10 units in parallel connection No wiring and DIP switch realize free system combination

Battery Specification

Model	STK10	STK15	STK20	STK25	
Nominal Voltage	51.2V				
Nominal Capacity	200Ah	300Ah	400Ah	500Ah	
Energy	10.24kWh	15.36kWh	20.48kWh	25.6kWh	
Charge Cut-off Voltage		58.	.4V		
Discharge Cut-off Voltage		40	V		
Standard Charge Current	100A	150A	200A	250A	
Max. Charge Current	200A	300A	400A	500A	
Max. Constant Discharge Current	200A	300A	400A	500A	
Peak Current	300A	400A	500A	600A	
Communication	RS485/CAN				
Dimension	585*360*458mm 23*14.2*18in	585*360*608mm 23*14.2*23.9in	585*360*758mm 23*14.2*29.8in	585*360*908mm 23*14.2*35.7in	
Weight	92kg/202.8lbs	138kg/304.2lbs	184kg/405.7lbs	230kg/507.1lbs	
Qty/20G/40GP	157pcs/289pcs	105pcs/192pcs	78pcs/144pcs	63pcs/115pcs	
Temperature		Charge: 0~50°C; Discharge: -15~ 60°C			

Specifications subject to change without notice, please contact us to get the lastest information.







ONE Series | Energy Storage Battery

Polinovel ONE Series is a solar lithium battery system that stores energy from the PV array. ONE has multiple lifepo4 battery modules and a hybrid inverter, that are optimized to work together. Innovative multi-battery parallel technology enables easy installation with no wiring and DIP required. Its integrated and stackable design allows for a simple connection to any home.

Key Features

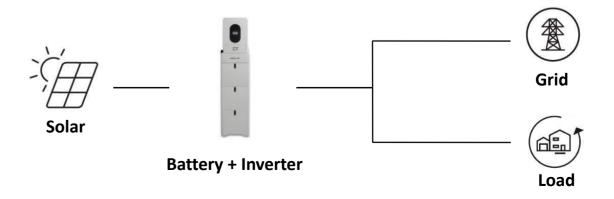
Integrated battery, inverter, controller for more compact install Expandable for demand, free assembly, flexible stacking

No wiring, no dialing code, automatic protection parallel circulation

Battery Specification

Battery Module	ONE5	ONE10	ONE15			
Nominal Voltage		51.2V				
Nominal Capacity	100Ah	200Ah	300Ah			
Energy	5.12kWh	10.24kWh	15.36kWh			
Charge Cut-off Voltage		58V				
Discharge Cut-off Voltage		42V				
Standard Charge Current		50A				
Max. Charge Current		100A				
Max. Constant Discharge Current		100A				
Peak Current		200A				
Communication	RS485/CAN					
Inverter						
Power	5KW					
Output Voltage		230VAC				
Frequency	50Hz					
Input Power (PV)	7KW					
Input Voltage Range (PV)	150-500VDC					
Communication Connect Port	RS485/CAN					
System Information						
Case Material		Metal				
Dimension	410*230*1070mm 16.1*9.1*42.1in	410*230*1430mm 16.1*9.1*56.3in	410*230*1790mm 16.1*9.1*70.5in			
Weight	70kg/154lbs 115kg/253.5lbs		160kg/352.7lbs			
Qty/20GP/40GP	160pcs/320pcs	82pcs/164pcs				
Temperature	Charg	re: 0~50°C; Discharge: -15~	60℃			

 $Specifications \ subject \ to \ change \ without \ notice, \ please \ contact \ us \ to \ get \ the \ lastest \ information.$









RACK Series | Energy Storage Battery

Polinovel RACK series lithium battery inherits the classic modular design for easy rack installation. It utilizes proven lithium iron phosphate cells with built-in smart BMS, ensuring great safety and high efficiency to store solar energy, bringing seamless backup power to keep your household appliances running during a power outage.

Key Features

Great compability with branded inverter

Suport 15pcs in parallel connection for power expansion

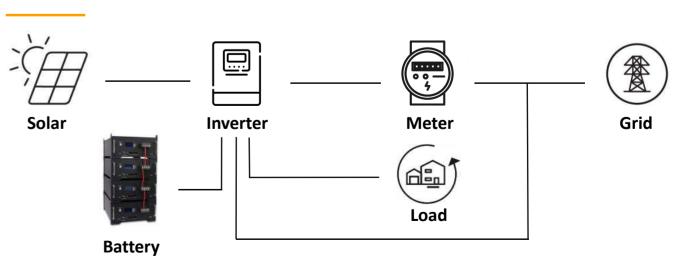
3U, 4U, 5U sizes available

Battery Specification

Model	RACK4850	RACK48100	RACK48150	RACK48200		
Nominal Voltage	51.2V					
Nominal Capacity	50Ah	100Ah	150Ah	200Ah		
Energy	2.56kWh	5.12kWh	7.68kWh	10.24kWh		
Charge Cut-off Voltage		58	.4V			
Discharge Cut-off Voltage		40	V			
Max. Charge Current	50A					
Max. Constant Discharge Current	50A	100A	150A	200A		
Peak Current	100A	200A	200A	300A		
Max. Modules in Parallel	15pcs in parallel					
Communication	RS485/RS232/CAN					
Dimension	442*450*133mm 17.4*17.7*5.2in	442*510*155mm 17.4*20*6.1in	442*400*311mm 17.4*15.7*12.2in	442*680*223mm 17.4*26.8*8.8in		
Weight 29kg/64lbs		49.5kg/109lbs	76kg/168lbs	100kg/220lbs		
Qty/20GP/40GP	360pcs/720pcs	250pcs/420pcs	175pcs/250pcs	130pcs/190pcs		
Temperature	Charge: 0~50°C; Discharge: -15~ 60°C					

Specifications subject to change without notice, please contact us to get the lastest information.

System Diagram





SALES@POLINOVEL.COM | POLINOVEL.COM

RACK SERIES DATASHEET



CABINET Series | Energy Storage Battery

Polinovel Cabinet Series lithium battery is available in capacities of 10kWh, 15kWh, 20kWh, and 25kWh, allowing you to store sufficient solar energy to power your home, significantly reduce dependence on the grid during peak demand time, and keep your home appliance normal running when the grid goes down.

Key Features

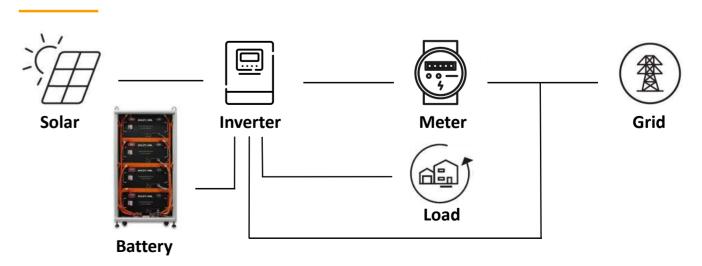
Compact design for easy installation on wall or ground

Scalable battery allows 15 units in parallel connection Friendly communication compatible with 20+ inverter brands

Battery Specification

Model	Cabinet10	Cabinet15	Cabinet20	Cabinet25		
Nominal Voltage	51.2V					
Nominal Capacity	200Ah	300Ah	400Ah	500Ah		
Energy	10.24kWh	15.36kWh	20.48kWh	25.6kWh		
Charge Cut-off Voltage		58	BV			
Discharge Cut-off Voltage		40	υV			
Recommended Charge Current	60A	100A	120A	150A		
Max. Charge Current	100A	150A	200A	200A		
Max. Constant Discharge Current	200A	300A	400A	500A		
Peak Current	300A	400A	500A	600A		
Max. Modules in Parallel	15pcs in parallel					
Communication	RS485/RS232/CAN					
Dimension (L*W*H)	600*600*720mm 23.6*23.6*28.3in	600*600*987mm 23.6*23.6*38.9in	600*600*1165mm 23.6*23.6*45.9in	600*600*1378mm 23.6*23.6*54.3in		
Weight	95kg/209.4lbs	141kg/310.9lbs	187kg/412.3lbs	243kg/535.7lbs		
Qty/20GP/40GP	48pcs/96pcs	24pcs/48pcs	24pcs/48pcs	24pcs/48pcs		
Temperature	Charge: 0~50°C; Discharge: -15~ 60°C					

Specifications subject to change without notice, please contact us to get the lastest information.







ES Series | Energy Storage Battery

Polinovel ES series is a 48V lithium iron phosphate battery with superior performance. Compatible with global inverter brands, it can be used for self-consumption and backup applications with a capacity of 10kWh, 15kWh, and 20kWh. Choose this high-efficient battery for your solar energy storage system and use it whenever needed.

Key Features

Long life, high performance, free maintenance

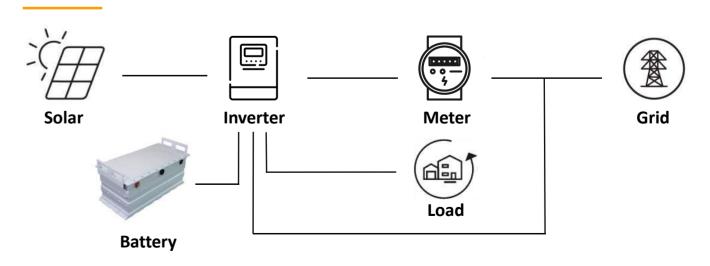
Flexible customize solution in capacity and size

Friendly compatibility with global inverter brands

Battery Specification

Model	ES48200	ES48300	ES48400		
Nominal Voltage		51.2V			
Nominal Capacity	200Ah	300Ah	400Ah		
Energy	10.24kWh	15.36kWh	20.48kWh		
Charge Cut-off Voltage		58.4V			
Discharge Cut-off Voltage		40V			
Standard Charge Current	40A 60A		80A		
Max. Charge Current	100A				
Max. Constant Discharge Current	200A				
Peak Current	400A (<5s)				
Communication		RS485/CAN			
Dimension	840*450*340mm 33.1*17.7*13.4in 840*450*340mm 33.1*17.7*13.4in		927*460*475mm 33.1*17.7*13.4in		
Weight	106kg/234lbs	140kg/309lbs	198kg/437lbs		
Qty/20GP/40GP	96pcs/180pcs	96pcs/135pcs	60pcs/95pcs		
Temperature	Charg	e: 0~50°C; Discharge: -15^	- 60℃		

 $Specifications \ subject \ to \ change \ without \ notice, \ please \ contact \ us \ to \ get \ the \ lastest \ information.$







HSTK Series | Energy Storage Battery

Polinovel HSTK Series is a stackable and easily scalable residential energy storage lithium battery system, integrated high-voltage modular with a capacity of 5kWh for a single battery pack, that supports multiple batteries being connected in series to meet different voltage and power needs. The battery system is created at automotive-grade craft, bringing a highly reliable and safe power source to ensure the normal operation of your home appliances.

Key Features

Flexible voltage expansion for different power demands

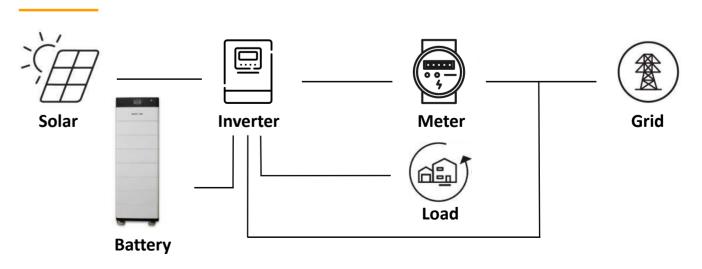
Plug-and-play design simplize the connection and installation

Reliable power for highvoltage residential or light commercial scenes

Battery Specification

Model	HSTK25	HSTK30	HSTK35	HSTK40
Nominal Voltage	256V	307.2V	358.4V	409.6V
Nominal Capacity		100	DAh	
Energy	25.6kWh	30.7kWh	35.8kWh	40.9kWh
Charge Cut-off Voltage	290V	350V	408V	467V
Discharge Cut-off Voltage	212V	254V	296V	340V
Standard Charge Current		50	DA	
Max. Charge Current	100A			
Max. Constant Discharge Current		10	0A	
Peak Current		15	0A	
Communication		RS48!	5/CAN	
Dimension	565*460*1140mm 22.2*18.1*44.9in	565*460*1320mm 22.2*18.1*52in	565*460*1500mm 22.2*18.1*59.1in	565*460*1680mm 22.2*18.1*66.1in
Weight	245kg/540.1lbs	290kg/639.3lbs	340kg/749.6lbs	380kg/837.8lbs
Qty/20GP/40GP	36pcs/72pcs 36pcs/65pcs 36pcs/55pcs 36pcs/50pcs			
Temperature	Charge: 0~50°C; Discharge-15~ 60°C			

 $Specifications \ subject \ to \ change \ without \ notice, \ please \ contact \ us \ to \ get \ the \ lastest \ information.$







HV Series | Energy Storage Battery

Polinovel HV Series is a safe energy storage lithium battery system, with voltage optional from 192V to 480V, suited for residential or light commercial buildings that are powered by high voltage. The battery system is created at an automotive-grade craft, bringing a highly reliable power source to ensure the normal operation of the appliances.

Key Features

High safety and reliability

Automative-grade quality standard

Support series connection for flexible expansion

Battery Specification

Model	HV19250	HV192100	HV24050	HV240100	
Nominal Voltage	19	2V	24	240V	
Nominal Capacity	50Ah	100Ah	50Ah	100Ah	
Energy	9.6kWh	19.2kWh	12kWh	24kWh	
Charge Cut-off Voltage	21	8V	20	00V	
Discharge Cut-off Voltage	16	ov	2	70V	
Recommended Charge Current	25A	50A	25A	50A	
Max. Charge Current	50A	100A	50A	100A	
Max. Constant Discharge Current	50A	100A	50A	100A	
Peak Current	100A	200A	100A	200A	
Dimension	460*330*480mm 18.1*13*18.9in	600*600*1600mm 23.6*23.6*63in	460*330*640mm 18.1*13*25.2in	1530*600*600mm 60.2*23.6*23.6in	
Weight	100kg/220.5lbs	190kg/418.9lbs	170kg/374.8lbs	260kg/573.2lbs	
Qty/20GP/40GP	130pcs/190pcs 24pcs/48pcs 75pcs/110pcs		24pcs/48pcs		
Communication	RS485/CAN				
Temperature	Charge: Charge Temperature; Discharge: -15~ 60°C				

Model	HV38450	HV384100	HV48050	HV480100
Nominal Voltage	384V		480V	
Nominal Capacity	50Ah 100Ah 50Ah		50Ah	100Ah
Energy	19.2kWh	38.4kWh	24kWh	48kWh
Charge Cut-off Voltage	43	5V	54	45V
Discharge Cut-off Voltage	32	ov	40	DOV
Recommended Charge Current	25A	50A	25A	50A
Max. Charge Current	50A	100A	50A	100A
Max. Constant Discharge Current	50A	100A	50A	100A
Peak Current	100A	200A	100A	200A
Dimension	460*330*780mm 18.1*13*30.7in	600*600*1600mm 23.6*23.6*63in	600*600*1600mm 23.6*23.6*63in	1200*600*1600mm 47.2*23.6*63in
Weight	280kg/617.3lbs	500kg/1102.3lbs	350kg/771.6lbs	600kg/1322.8lbs
Qty/20GP/40GP	45pcs/65pcs 24pcs/35pcs 24pcs/48pcs 12		12pcs/24pcs	
Communication	RS485/CAN			
Temperature	Charge: Charge Temperature; Discharge: -15~ 60°C			

Specifications subject to change without notice, please contact us to get the lastest information.







Item	3KW+5KWh 5KW+5KWh		8KW+10KWh	10KW+10KWh	
Half Cell Solar Panel	450W Mono * 8pcs 450W Mono * 12pcs		450W Mono * 16pcs	450W Mono * 22pcs	
Inverter	3KW	5KW	8KW	10KW	
Lithium Battery	5KWh Lifepo4 Battery 10KWh Lifepo4 Battery (WALL10)				
PV Combiner Box		1pc			
PV Cable		4-6r	nm2		
Mounting Bracket	Roof/Ground				
MC4 Connector	8pcs 12pcs 16pcs 22pcs				
Installation Tools	1set				

Above energy storage system is for reference, please contact us for different requirements.



Mounting Kits Roof, ground



Accessories
Combiner box, cable, MC4

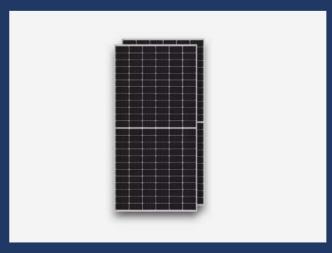
System Components



Inverter 3KW, 5KW, 8KW, 10KW



Lithium Battery 5kWh, 10kWh



Solar Panel Half cell 450W



Tools
Cutter, Stripper, Crimper





Item	3KW+5KWh 5KW+5KWh		8KW+10KWh	10KW+10KWh	
Half Cell Solar Panel	450W Mono * 8pcs 450W Mono * 12pcs		450W Mono * 16pcs	450W Mono * 22pcs	
Inverter	3KW	3KW 5KW		10KW	
Lithium Battery	5KWh Lifepo4 Battery (KEY5) 10KWh Lifepo4 Battery (KEY10)			-	
PV Combiner Box		1pc			
PV Cable		4-6r	nm2		
Mounting Bracket	Roof/Ground				
MC4 Connector	8pcs 12pcs 16pcs 22pcs				
Installation Tools	1set				

Above energy storage system is for reference, please contact us for different requirements.



Mounting Kits Roof, ground



Accessories
Combiner box, cable, MC4

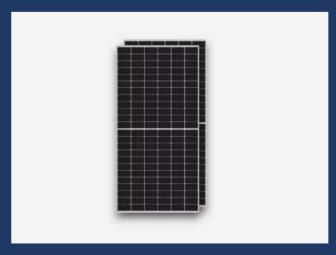
System Components



Inverter 3KW, 5KW, 8KW, 10KW



Lithium Battery 5kWh, 10kWh



Solar Panel Half cell 450W



Tools Cutter, Stripper, Crimper





Item	5KW+15KWh	8KW+20KWh	10KW+25KWh	
Half Cell Solar Panel	450W Mono * 12pcs	450W Mono * 16pcs	450W Mono * 22pcs	
Inverter	5KW	8KW	10KW	
Lithium Battery	15KWh Lifepo4 Battery (Vertical15)	20KWh Lifepo4 Battery (Vertical20)	25KWh Lifepo4 Battery (Vertical25)	
PV Combiner Box	1pc			
PV Cable	4-6mm2			
Mounting Bracket		Roof/Ground		
MC4 Connector	12pcs	12pcs	12pcs	
Installation Tools		1set		

Above energy storage system is for reference, please contact us for different requirements.



Mounting Kits Roof, ground



Accessories
Combiner box, cable, MC4

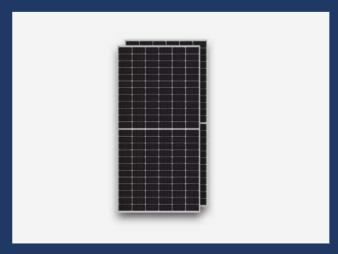
System Components



Inverter 5KW, 8KW, 10KW



Lithium Battery 15kWh, 20kWh, 25kWh



Solar Panel Half cell 450W



Tools Cutter, Stripper, Crimper





Item	5KW+10kWh	8KW+15KWh	10KW+20KWh	
Half Cell Solar Panel	450W Mono * 12pcs	450W Mono * 16pcs	450W Mono * 22pcs	
Inverter	5KW	8KW	10KW	
Lithium Battery	10KWh Lifepo4 Battery (STK10)	15KWh Lifepo4 Battery (STK15)	20KWh Lifepo4 Battery (STK20)	
PV Combiner Box	1pc			
PV Cable	4-6mm2			
Mounting Bracket		Roof/Ground		
MC4 Connector	12pcs	16pcs	22pcs	
Installation Tools		1set		

Above energy storage system is for reference, please contact us for different requirements.



Mounting Kits Roof, ground



Accessories
Combiner box, cable, MC4

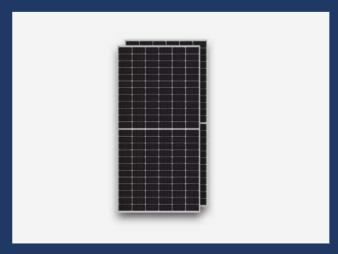
System Components



Inverter 5KW, 8KW, 10KW



Lithium Battery 10kWh, 15kWh, 20kWh



Solar Panel Half cell 450W



Tools Cutter, Stripper, Crimper





Item	5KW+10KWh	8KW+15KWh	10KW+20KWh	
Half Cell Solar Panel	450W Mono * 12pcs	450W Mono * 16pcs	450W Mono * 22pcs	
Inverter	5KW	8KW	10KW	
Lithium Battery	10KWh Lifepo4 Battery (RACK48100*2pcs/ RACK48200)	15KWh Lifepo4 Battery (RACK48100*3pcs/ RACK48150*2pcs)	20KWh Lifepo4 Battery (RACK48100*4pcs/ RACK48200*2pcs)	
PV Combiner Box	1pc			
PV Cable	4-6mm2			
Mounting Bracket	Roof/Ground			
MC4 Connector	12pcs	16pcs	22pcs	
Installation Tools		1set		

Above energy storage system is for reference, please contact us for different requirements.



Mounting Kits Roof, ground



Accessories
Combiner box, cable, MC4

System Components



Inverter 5KW, 8KW, 10KW



Lithium Battery 10kWh, 15kWh, 20kWh



Solar Panel Half cell 450W



Tools
Cutter, Stripper, Crimper





Item	5KW+10KWh	8KW+15KWh	10KW+20KWh	
Half Cell Solar Panel	450W Mono * 12pcs	450W Mono * 16pcs	450W Mono * 22pcs	
Inverter	5KW	8KW	10KW	
Lithium Battery	10KWh Lifepo4 Battery (Cabinet10)	15KWh Lifepo4 Battery (Cabinet15)	20KWh Lifepo4 Battery (Cabinet20)	
PV Combiner Box	1pc			
PV Cable	4-6mm2			
Mounting Bracket		Roof/Ground		
MC4 Connector	12pcs	16рсѕ	22pcs	
Installation Tools		1set		

Above energy storage system is for reference, please contact us for different requirements.



Mounting Kits Roof, ground



Accessories
Combiner box, cable, MC4

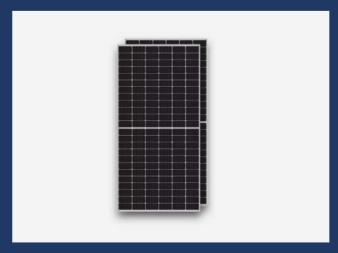
System Components



Inverter 5KW, 8KW, 10KW



Lithium Battery 10kWh, 15kWh, 20kWh



Solar Panel Half cell 450W



Tools
Cutter, Stripper, Crimper





Item	5KW+5KWh	5KW+10KWh	5KW+15KWh	
Half Cell Solar Panel	450W Mono * 12pcs	450W Mono * 12pcs	450W Mono * 12pcs	
Inverter		5KW		
Lithium Battery	5KWh Lifepo4 Battery (ONE5)	10KWh Lifepo4 Battery (ONE10)	15KWh Lifepo4 Battery (ONE15)	
PV Combiner Box		1pc		
PV Cable	4-6mm2			
Mounting Bracket		Roof/Ground		
MC4 Connector		12pcs		
Installation Tools		1set		

Above energy storage system is for reference, please contact us for different requirements.



Mounting Kits Roof, ground



Accessories
Combiner box, cable, MC4

System Components

Lithium Battery 5kWh, 10kWh, 15kWh

Built-in Inverter 5KW





Solar Panel Half cell 450W



Tools Cutter, Stripper, Crimper





Item	5KW+5KWh	5KW+10KWh	5KW+15KWh	
Half Cell Solar Panel	450W Mono * 12pcs	450W Mono * 12pcs	450W Mono * 12pcs	
Inverter		5KW		
Lithium Battery	5KWh Lifepo4 Battery (WE5)	10KWh Lifepo4 Battery (WE10)	15KWh Lifepo4 Battery (WE15)	
PV Combiner Box		1рс		
PV Cable	4-6mm2			
Mounting Bracket		Roof/Ground		
MC4 Connector		12pcs		
Installation Tools		1set		

Above energy storage system is for reference, please contact us for different requirements.



Mounting Kits Roof, ground



Accessories
Combiner box, cable, MC4

System Components

Lithium Battery 5kWh, 10kWh, 15kWh

Built-in Inverter 5KW





Solar Panel Half cell 450W



Tools Cutter, Stripper, Crimper

Our Projects









Marine Application

Project Name: 24V/36V Lithium Battery For Trolling Motor **Project Description:** 2 x 12V 60Ah lithium batteries are connected in series to power 24V Minn Kota trolling motor; A single 40Ah battery powers 36V motor.

Location/Time: Japan, 2021

Marine Application **Project Name:** 48V 200Ah Lithium Battery For Catamaran **Project Description:** Tailored 48V 200Ah lithium battery works with 1200W solar panel array and 2 x 300W wind turbines power generating systems to provide enough power for two 14HP motors and onboard appliances. **Location/Time:** U.S, 2020









Marine Application

Project Name: 48V 300Ah Lithium Battery For Boat **Project Description:** 4 x 12V 300Ah lithium batteries are connected in series

to get a 48V system and supply reliable power for the rental boat.

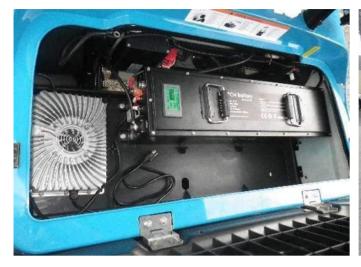
Location/Time: Canada, 2021

RV Application **Project Name:** 12V 600Ah Lithium Battery For Trailer **Project Description:** The 12V 600Ah lithium battery with customized size replaces 4x120Ah lead-acid in the trailer vehicle to take over rough terrain.

Drop-in upgrading with no modification on the battery tray.

Location/Time: Australia, 2021

Our Projects









Golf Cart Application

Project Name: 48V 100Ah Lithium Battery For ICON Golf Cart **Project Description:** Tailor-designed 48V 100Ah lithium battery powers 4KW motor of ICON i60L 6 seats golf cart.

Location/Time: U.S, 2020

Golf Cart Application

Project Name: 48V 100Ah Lithium Battery For Club Car Golf Cart
Project Description: Tailor-made 48 volt 100Ah lithium battery replaces six 8
volt Trojan lead-acid batteries, providing power for Club Car Precedent
Stretch 48V motor with 2.7kw rated and 14.9kw peak power.
Location/Time: Thailand, 2018









Golf Cart Application

Project Name: 48V 100Ah Lithium Battery For Yahama Golf Buggy **Project Description:** Custom size 100Ah lithium battery drives 48V Yahama golf buggy motor with 2.6kw output and rating of 30min.

Location/Time: U.K, 2021

Energy Storage Application **Project Name:** 48V 7kWh Lithium Backup Power For Home **Project Description:** The V7000 48V 7.6kWh power wall lithium battery stores energy for home backup and keeps household appliances running during grid outages.

Location/Time: Puerto Rico, 2020

Our Projects









Energy Storage Application

Project Name: 48V 30kWh Lithium Residential Energy Sorage System **Project Description:** 4 x 7.6kWh 48V (V7000) power wall lithium batteries

connected in parallel and configured with 3 x 5KW solar inverters that get a

48V 30kWh solar energy storage system.

Location/Time: U.K, 2021

Industrial Vehicle Application **Project Name:** 48V 300Ah Lithium Battery For Airport Belt Loader **Project Description:** The 48V 300Ah lithium iron phosphate battery is mounted on the conveyor belt loader for loading and unloading baggage and cargo at the airport.

Location/Time: Malaysia, 2020















Industrial Equipment Application Project Name: 24V 48Ah Lithium Battery For AGV

Project Description: The customized 24V 48Ah lithium battery provides twice the energy and running time of conventional lead-acid, and the faster charging dramatically improves the work efficiency of Automatic Guided

Vehicle.

Location/Time: France, 2020

Industrial Equipment Application **Project Name:** 80V 500Ah Lithium Battery For Ice Resurfacer **Project Description:** The 80V 500Ah high energy density lithium battery pack drastically reduced the total weight of the machine. The battery is maintenance-free and does not release hazardous gases, upgrading operators' safety and comfort to a higher level.

Location/Time: U.K, 2020

Market Performance

Main Markets

Since its establishment, Polinovel has helped 100+ customers to build their lithium battery brand, main market covers 35+ countries in Europe, North America, South America, Oceania, Asia, Africa.



World





Declaimer:

Polinovel has made this brochure as comprehensive and accurate as possible on the basis of the existing information, but reserve the right to modify the data, parameter, and other information without further notice. Polinovel reserves the right of the final interpretation of thie brochure



Pursue A Green Life

Shenzhen Polinovel Tech Co., Ltd

Email: sales@polinovel.com
Website: www.polinovel.com

Address: 1010 Longnian Building, 29 Longcheng Avenue, Nanlian Block, Longgang Str., Longgang

District, Shenzhen, 518100 China