

# Lithium Battery Product Brochure









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- Container Lithium Battery

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# **COMPANY PROFILE**

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### **Our Mission**

We are committed to responsible solar system solutions for a better future and adhere to the highest ethical standards in our operations and supply chain. We value responsible sourcing, efficient manufacturing and end-of-life recycling to minimize our environmental footprint.



### **Our Core Values**

Respond to our customers beyond expectations and promote customer satisfaction; provide customers with exceptional, efficient and reliable services.

Cultivate a vibrant and collaborative work environment; empower our employees to take ownership; foster a culture of innovation that fuels our collective growth and shared success with our customers.





# **Our Vision**

We support our global customers with highly efficient solar products, individual advice on system design and financing options. By investing in the continuous improvement of our employees, we foster a culture of innovation and excellence to create a sustainable future for all.



# ADVANTAGES & **SERVICES**

# MORE EFFICIENT

- · Compact size with high energy density.
- · Low energy consumption with high conversion ratio.

## MORE RELIABLE

• New Grade A cell with cycle life up to 10,000 times. · Smart BMS with full function protection.

### SMARTER

· Optional LOT function with Bluetooth/4G/WLAN module. · Realtime remote monitoring with friendly HMI.

### EASIER OPERATION

· Most of the models Plug and Play design, fast commissioning. · Engineer friendly maintenance design.

# TECHNICAL CERTIFICATE















**UN38.3** 







16+ Years Delivery Experience.















# LITHIUM BATTERY SERIES OVERVIEW

# • PowerPal E

- PowerPal Y
- All In One ESS



# • HiPal X

# • LiFePO4 12V

# • Container Lithium Battery









Applicable for cabinet telecom and solar energy storage system.



Flexible Capacity Max.15pcs in Parallel to extend capacity.



Easy Installation Quick plug in +/- and RS485 parallel connection.







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# PowerPal E 25.6V

Nominal Voltage: 25.6V Rated Capacity: 100/200Ah Usable Capacity: 2304/4608Wh Discharge Voltage: 23V Charge Voltage: 28V Weight: 28.2/47.9kg





# PowerPal E 48V

Nominal Voltage: 48V Rated Capacity: 50/100/150/200Ah Usable Capacity: 2160/4320/6480/8640Wh Discharge Voltage: 45.5V/43.5V Charge Voltage: 51.5V/52.5V Weight: 27/46/68/90kg





# PowerPal E 51.2V

Nominal Voltage: 51.2V Rated Capacity: 100/200Ah Usable Capacity: 4608/9216Wh Discharge Voltage: 44.8V Charge Voltage: 57.6V Weight: 48.2/95kg



## PowerPal E1 48V

Nominal Voltage: 48V Rated Capacity: 100/200Ah Max. Dis/Charging Current: 100A Discharge Cut-off Voltage: 41V Charging Voltage: 53.5~54.5V Weight: 46/85kg

## PowerPal E1 51.2V

Nominal Voltage: 51.2V Rated Capacity: 100/200Ah Max. Dis/Charging Current: 100A Discharge Cut-off Voltage: 43.2V Charging Voltage: 57.6V Weight: 50/89kg

# PowerPal E4 51.2V

Nominal Voltage: 51.2V Rated Capacity: 100Ah Rated Energy: 5120Wh Discharge Voltage: 45.6V Charge Voltage: 56.16V Weight: 47.2kg







Nominal Voltage: 48V Rated Capacity: 100/200Ah Usable Capacity: 4320/8640Wh Discharge Voltage: 43.5V Charge Voltage: 52.5V Weight: 49.5/99kg



## PowerPal Y 51.2V

Nominal Voltage: 51.2V Rated Capacity: 100/200/280Ah Usable Capacity: 4608/9216/12902.4Wh Discharge Voltage: 46V Charge Voltage: 56V Weight: 52/104/115kg



# PowerPal Y4 51.2V

Nominal Voltage: 51.2V Rated Capacity: 100/200/300Ah Max. Charge Current: 50/100/100A Discharge Voltage: 45.6V Charge Voltage: 56.16V Weight: 48.2/95kg





# PowerPal Y1 48V

Nominal Voltage: 48V Rated Capacity: 100Ah/200Ah Max. Dis/Charging Current: 100A Discharge Cut-off Voltage: 41~54.5V Charging Voltage: 53.5~54.5V Weight: 68/98kg

# PowerPal Y1 51.2V

Nominal Voltage: 51.2V Rated Capacity: 100Ah/200Ah Max. Dis/Charging Current: 100A Discharge Cut-off Voltage: 43.2V Charging Voltage: 58.4V Weight: 72/106kg

# All In One ESS

Lithium inverter in one machine



Retrificated LFP battery and Hybrid PV inverter in one system.



Self-consumption Optimization for residential and commercial applications.

Simplifies transportation and installation.





Dn grid or hybrid and off grid solar. energy storage system











# PowerPal S4 51.2V

Rated Capacity: 200Ah Number of Layers: 1 Layer Rated Energy: 10240Wh Max. PV Power: 9000W Max. PV Voltage: 550V Weight: 200kg





# PowerPal S4 51.2V

Rated Capacity: 300/400Ah Number of Layers: 2 Layer Rated Energy: 15360/20480Wh Max. PV Power: 9000W Max. PV Voltage: 550V Weight: 260/320kg



# PowerPal S2 48V

Nominal Voltage: 48V Rated Capacity: 100Ah/200Ah Max. Dis/Charging Current: 100A Discharge Cut-off Voltage: 41V Charging Voltage: 53.5~54.5V Weight: 46kg/85kg

# PowerPal T2 51.2V

Nominal Voltage: 51.2V Rated Capacity: 100Ah/200Ah Max. Dis/Charging Current: 100A Discharge Cut-off Voltage: 43.2V Charging Voltage: 57.6V Weight: 50kg/89kg





Easy Installation Easy installation flexible expansion.



Customized service Quick customization of electricity.



Flexible Capacity Emergency-backup and off-grid functionality.

Safe and Reliable Safety first smart BMS system.

Description Long Lifespan Long cycle life 6000 cycles.







# HiPal X1 51.2V

Energy Capacity: 20.48~40.96kWh Battery Module: 51.2V100Ah Max.Output Power: 10.24~20.48kW Max.Discharge Current: 50A/0.5C Communication: RS232, RS485, CAN Number of Module: 4~8





# HiPal X1 51.2V

Energy Capacity: 46.08~66.56kWh Battery Module: 51.2V100Ah Max.Output Power: 23.04~33.28kW Max.Discharge Current: 50A/0.5C Communication: RS232, RS485, CAN Number of Module: 9~13



# HiPal X2 51.2V

Energy Capacity: 100.352~215.01kWh Battery Module: 51.2V280Ah Rated Energy: 14.336kWh Rated Voltage: 358.4~768V Rated Discharge/Charge: 0.5C Number of Module: 7~15

# HiPal X3 51.2V

Energy Capacity: 112.537~241.152kWh Battery Module: 51.2V314Ah Rated Energy: 16.0768kWh Rated Voltage: 358.4~768V Rated Discharge/Charge: 0.5C Number of Module: 7~15

# LiFePO4 12V

Lead-acid replacement lithium battery



Divide Hours of Power Quick charge, always stand by.



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**Long Lifespan** 3000 cycles @25°C, 80%DOD.

The safest LFP battery cell.



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12.8V 12Ah

12.8V 50Ah







Nominal Voltage: 12.8V Nominal Capacity: 8Ah Rated Energy: 102.4Wh Maximum Diacharge Current: 20A/10S Dimensions(L\*W\*H): 151\*65\*94mm Weight: 0.95kg





## LP1212 LiFePO4

Nominal Voltage: 12.8V Nominal Capacity: 12Ah Rated Energy: 153.6Wh Maximum Diacharge Current: 20A/10S Dimensions(L\*W\*H): 151\*65\*94mm Weight: 1.4kg





# LP1220 LiFePO4

Nominal Voltage: 12.8V Nominal Capacity: 20Ah Rated Energy: 256Wh Maximum Diacharge Current: 50A/10S Dimensions(L\*W\*H): 181\*77\*170mm Weight: 2.3kg



## LP1250 LiFePO4

Nominal Voltage: 12.8V Nominal Capacity: 50Ah Rated Energy: 640Wh Maximum Diacharge Current: 50A/10S Dimensions(L\*W\*H): 233\*150\*178mm Weight: 5.6kg

## LP12100 LiFePO4

Nominal Voltage: 12.8V Nominal Capacity: 100Ah Rated Energy: 1280Wh Maximum Diacharge Current: 100A/10S Dimensions(L\*W\*H): 307\*169\*213mm Weight: 11.5kg

### LP12100 Plus LiFePO4

Nominal Voltage: 12.8V Nominal Capacity: 100Ah Rated Energy: 1280Wh Maximum Diacharge Current: 200A/10S Dimensions(L\*W\*H): 307\*169\*213mm Weight: 11.5kg





Nominal Voltage: 12.8V Nominal Capacity: 150Ah Rated Energy: 1920Wh Maximum Diacharge Current: 100A/10S Dimensions(L\*W\*H): 520\*270\*220mm Weight: 31.5kg





### LP12180 Plus LiFePO4

Nominal Voltage: 12.8V Nominal Capacity: 180Ah Rated Energy: 2304Wh Maximum Diacharge Current: 200A/10S Dimensions(L\*W\*H): 520\*270\*220mm Weight: 31.5kg





## LP12200 Ultra LiFePO4

Nominal Voltage: 12.8V Nominal Capacity: 200Ah Rated Energy: 2560Wh Maximum Diacharge Current: 300A/10S Dimensions(L\*W\*H): 520\*270\*220mm Weight: 31.5kg



## LP12200 Plus LiFePO4

Nominal Voltage: 12.8V Nominal Capacity: 200Ah Rated Energy: 2560Wh Maximum Diacharge Current: 200A/10S Dimensions(L\*W\*H): 520\*270\*220mm Weight: 31.5kg

## LP12240 Ultra LiFePO4

Nominal Voltage: 12.8V Nominal Capacity: 240Ah Rated Energy: 3072Wh Maximum Diacharge Current: 300A/10S Dimensions(L\*W\*H): 520\*270\*220mm Weight: 31.5kg

### LP12240 Plus LiFePO4

Nominal Voltage: 12.8V Nominal Capacity: 240Ah Rated Energy: 3072Wh Maximum Diacharge Current: 200A/10S Dimensions(L\*W\*H): 520\*270\*220mm Weight: 31.5kg

# **Container lithium battery**

High Voltage Energy Storage System Commercial



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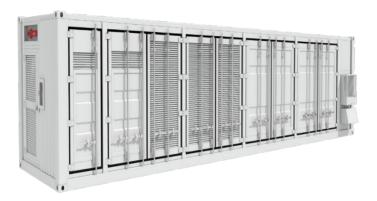
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# ECO 1MW

Energy Capacity: 2~3MWH Rated Voltage: 716.8V Voltage Range: 627.2~795.2V Cell Spec: 3.2V/280Ah Number of Strings: 10~15 Dimension: 12116\*3438\*2896mm





# ECO 100KW

Energy Capacity: 200~215kWh Battery Module: 51.2V100Ah Max.Output Power: 23.04~33.28kW Max.Discharge Current: 50A/0.5C Communication: RS232, RS485, CAN Dimension: 1650\*2350\*1600mm







Energy Capacity: 500kWh Rated Voltage: 614.4V Voltage Range: 538~690V Cell Spec: 3.2V/280Ah Number of Strings: 3 Dimension: 6058\*2438\*2591mm





Energy Capacity: 1075kWh Rated Voltage: 768V Voltage Range: 672~852V Cell Spec: 3.2V/280Ah Number of Strings: 5 Dimension: 6058\*2438\*2591mm

# RESIDENTIAL PROJECTS













# COMMERCIAL PROJECTS



