

# VOLFUTR

ENERGY · INNOVATION · FUTURE

**Store Green Energy · Power the Future**



## 2026

Guangdong Volfutr Technology  
[www.volfutr.com](http://www.volfutr.com)

**Home Energy Storage**  
**C&I Energy Storage**  
**Marine Lithium Battery**  
**Golf Cart Lithium Battery**  
**RV Lithium Battery**

Open Innovation · Green Future · Smart Power



# Company Profile

**Professional Energy Storage Manufacturer, A Globally Trusted Partner.**

Guangdong VOLFUTR Technology Co., Ltd. (Brand: VOLFUTR) focuses on residential energy storage, commercial & industrial energy storage, and specialized lithium battery systems, providing global customers with safe, reliable and efficient energy storage products and solutions.

Our core technical team, composed of senior experts from BYD, EVE Energy and Huawei, brings over 15 years of deep expertise in lithium battery energy storage and power systems. Our products are exported to Europe, Africa, Southeast Asia and beyond, with long-term strategic partnerships with leading global enterprises.



**UN38.3**

# 5–30 kWh Energy Storage Applications

## 1. Home Backup Power



Provides electricity for essential loads (lighting, fridge, TV) during grid outages.

## 2. Residential Solar Storage



Stores excess solar energy, increases self-consumption, reduces electricity costs.

## 3. Agriculture & Farming



Supplies stable power for ventilation, lighting, monitoring, and other farm equipment.

## 4. Peak Shaving / Load Management



Charge during off-peak, discharge during peak hours to reduce electricity costs.

## 5. Villas / Large Homes



Supports higher household energy demand, improves energy independence.

## 6. Hotels / Homestays



Reduces energy costs and ensures reliable power during peak tourist seasons.

## 7. Remote / No-grid Areas



Works with solar systems to deliver reliable off-grid electricity.

## 8. Boats / Yachts



Provides onboard electricity, improving comfort and safety.

# 100–500kWh Commercial & Industrial Energy Storage Applications

## 1. Peak Shaving & Demand Management



Store electricity during off-peak hours and discharge during peak periods to reduce demand charges and electricity costs.

## 2. Backup Power & Emergency Power



Provide reliable backup power during grid outages to ensure business continuity and protect critical loads.

## 3. Renewable Energy Integration



Store excess solar or wind energy and use it when needed to improve renewable energy utilization and stability.

## 4. Microgrid & Off-grid Solutions



Support microgrids or off-grid systems for stable, independent power supply in remote or unstable grid areas.

## 5. Commercial Buildings & Office Parks



Optimize energy use, reduce operating costs, and support green building and low-carbon operations.

## 6. EV Charging Stations Support



Reduce grid impact from fast charging, smooth power fluctuations, and lower charging station costs.

## 7. Time-of-Use Energy Arbitrage



Take advantage of electricity price differences by charging low and discharging high to increase energy savings.

## 8. Data Centers & IT Facilities



Provide reliable backup and stable power support to ensure continuous operation of critical IT infrastructure.

# Commercial & Industrial Energy Storage System

Cutting-edge C&I energy storage technology, helping enterprises reduce costs and improve efficiency!



## VOLFUTR -125- 261

### Product Features

High Reliability · Flexible Expansion · Easy Maintenance

### Mechanical Specifications

Dimensions (W\*H\*D): 1350\*2200\*1300mm  
Weight: Approx. 2500kg  
IP Protection Rating: IP54  
Operating Temperature: -20°C ~ 50°C

### Charge & Discharge Specifications

Grid Voltage: 400Vac  
Battery Type: LFP 314Ah  
Rated AC Power: 125kW  
Rated AC Current: 150A  
Rated Grid Frequency: 50/60Hz  
Rated DC Voltage: 768V  
DC Voltage Range: 949~728V  
Cycle Life: 6000 cycles @ 25°C, 0.5C rate  
Altitude: Below 2000m  
Management System: EMS+BMS  
Firefighting methods: aerosols, smoke detectors, temperature sensors, etc  
Cooling method: forced air cooling (air conditioning) or liquid cooling scheme



## VOLFUTR -241

### Product Features

High Reliability · Flexible Expansion · Easy Maintenance

### Mechanical Specifications

Dimensions (W\*H\*D): 1000\*2300\*1300mm  
Weight: Approx. 2500kg  
IP Protection Rating: IP55  
Operating Temperature: -15°C ~ 45°C

### Charge & Discharge Specifications

Grid Voltage: 400Vac  
Battery Type: LFP 314Ah  
Rated AC Power: 100kW  
Rated AC Current: 150A  
Rated Grid Frequency: 50/60Hz  
Rated DC Voltage: 876V  
DC Voltage Range: 684~876V  
Cycle Life: 6000 cycles @ 25°C, 0.5C rate  
Altitude: Below 2000m  
Management System: EMS+BMS  
Firefighting methods: aerosols, smoke detectors, temperature sensors, etc  
Cooling method: forced air cooling (air conditioning) or liquid cooling scheme



## VOLFUTR -480

### Product Features

High Reliability · Flexible Expansion · Easy Maintenance

### Mechanical Specifications

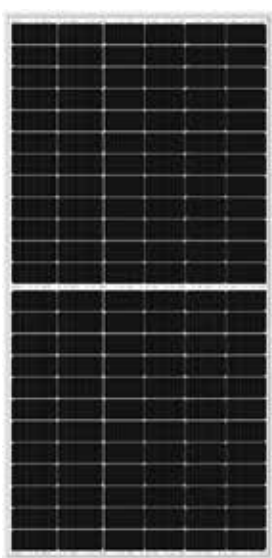
Dimensions (W\*H\*D): 1000\*2300\*1300mm  
(Adjustable according to the plan)  
Weight: Approx. 5000kg  
IP Protection Rating: IP55  
Operating Temperature: -15°C ~ 45°C

### Charge & Discharge Specifications

Grid Voltage: 400Vac  
Battery Type: LFP 570Ah  
Rated AC Power: 125kW  
Rated AC Current: 150A  
Rated Grid Frequency: 50/60Hz  
Rated DC Voltage: 876V  
DC Voltage Range: 684~876V  
Cycle Life: 6000 cycles @ 25°C, 0.5C rate  
Altitude: Below 2000m  
Management System: EMS+BMS  
Firefighting methods: aerosols, smoke detectors, temperature sensors, etc  
Cooling method: forced air cooling (air conditioning) or liquid cooling scheme

# Emergency & Outdoor Energy Storage Battery

Cutting-edge emergency energy storage technology, ensuring uninterrupted outdoor communication



Higher component conversion efficiency (up to 22.64%)



Hail test 25mm hail, impact at 23m/s



Wind and snow load 40°F to 185°F (-40°C to 85°C)



Operating Temperature 40°F to 185°F (-40°C to 85°C)

## XTL-580W ~ 600W

### Electrical Specifications

Component model	580W	590W	600W
Testing environment	STC	STC	STC
Maximum power [Pmax/W]	550W	590W	600W
Maximum power voltage [Vmp/V]	43.01V	43.11V	43.22V
Maximum power current [Imp/A]	13.49A	13.69A	13.88A
Open circuit voltage [Voc/V]	51.09V	51.30V	51.41V
Short circuit current [Isc/A]	13.89A	14.10A	14.63A
Component efficiency [%]	22.44%	22.83%	23.22%

### Mechanical And Operating Parameters

Junction box	IP68 Three diodes
FinWeight	27.2kg+3%
Size	2279+2×1134+2×30mm
Workingtemperature	-40°C~+85°C
Safety level	Class I
Fire rating	Class A



## Solar Inverter ED Series E

### Electrical Specifications

Model	ED4024EMH	ED11048EMH
AC Input	220VAC / 110VAC	
Input Frequency	50/60Hz*5%	
Rated Power	4000W	11000W
Output Voltage	220/230/240VAC*5%	
Output Frequency	50/60Hz=0.1%	
Peak Power	8000VA	22000VA
Output Voltage	220/230/240VAC	
Rated Output Current	17.4A	47.8A
Peak Efficiency (DC/AC)	>98%	
Rated Voltage	24Vdc	48Vdc
PV Charging Mode	MPPT	双路MPPT
Max PVinput Power	5000W	2×5500W
MPPTInput Voltage Range	60~500Vdc	90~500Vdc
Optimal Vmp Range	300~400Vdc	300~400Vdc
Max PV Input Voltage	500Vdc	
Max PVInput Current	18A	18A/18A
Max PV Charging Current	120A	150A
Max AC Charging Current	100A	150A
Max Charging Current	120A	150A
Expansion Slot	Lithium Battery BMS Communication	
Communication interface	Card,WiFi /Pitch2.54mm	

# Residential Energy Storage System



## 25.6V 280Ah

Available Power:7168Wh  
Rated Capacity:280Ah  
Rated Voltage: 25.6V  
Cycle life: ≥8000 cycles at 80% depth of discharge (DOD), 25°C

### Function

Number of parallels: It is recommended to connect 6 units in parallel (supports up to 16 units in parallel)  
Remote data: Bluetooth (optional)/ Wifi  
Protection Level: IP21

### Mechanical Specifications

Product dimensions (L × W × H) mm: 440 × 270 × 550 mm  
Net weight: 60.20KG

### Charge & Discharge Specifications

Operating voltage range: 22.4V~29.2V  
Rated charge and discharge current: 150A  
Peak current: 200A Continuous@205A10S  
Rated charge and discharge power:2560Wh  
Battery Management System Configuration:8S280A



## 51.2V 314Ah

Available Power:16000Wh  
Rated Capacity:314Ah  
Battery cell configuration: 16S1P  
Cycle life: ≥8000 cycles at 80% depth of discharge (DOD), 25°C

### Function

Number of parallels: It is recommended to connect 6 units in parallel (supports up to 16 units in parallel)  
Remote data: Bluetooth (optional)/ Wifi  
Protection Level: IP21

### Mechanical Specifications

Product dimensions (L × W × H) mm: 450×260×700mm  
Net weight: 120KG

### Charge & Discharge Specifications

Operating voltage range: 44.8V~58.4V  
Rated charge and discharge current: 200A  
Peak current: 200A Continuous@205A10S  
Rated charge and discharge power:2560Wh  
Battery Management System Configuration:16S314A



## 51.2V 100Ah

Available Power:5120Wh  
Rated Capacity:100Ah  
Battery cell configuration: 16S1P  
Cycle life: ≥8000 cycles at 80% depth of discharge (DOD), 25°C

### Function

Number of parallels: It is recommended to connect 6 units in parallel (supports up to 16 units in parallel)  
Remote data: Bluetooth (optional)/ Wifi  
Protection Level:IP21

### Mechanical Specifications

Product dimensions (L × W × H) mm: 440 × 270 × 550mm  
Net weight:52KG

### Charge & Discharge Specifications

Operating voltage range: 44.8V~58.4V  
Rated charge and discharge current: 100A  
Peak current: 100A Continuous@105A10S  
Rated charge and discharge power:2560Wh  
Battery Management System Configuration:16S100A



## 51.2V 420Ah

Available Power:21500Wh  
Rated Capacity:420Ah  
Battery cell configuration: 16S2P  
Cycle life: ≥8000 cycles at 80% depth of discharge (DOD), 25°C

### Function

Number of parallels: It is recommended to connect 6 units in parallel (supports up to 16 units in parallel)  
Remote data: Bluetooth (optional)/ Wifi  
Protection Level: IP21

### Mechanical Specifications

Product dimensions (L × W × H) mm: 1100×360×240 mm  
Net weight: 142KG

### Charge & Discharge Specifications

Operating voltage range: 44.8V~58.4V  
Rated charge and discharge current: 200A  
Peak current: 300A Continuous@305A10S  
Rated charge and discharge power:7680Wh  
Battery Management System Configuration:16S420A

# Cutting-edge home energy storage technology, ensuring worry-free household power supply!



## 51.2V 314Ah

Battery Capacity: 16000Wh/pack  
 Rated Power: 5000W / Peak 10000VA  
 AC Voltage (Battery Mode): 230VAC (185-240VAC ±5%)  
 Cycle Life: 8000 cycles

### Function

AC Charging: Max. 80A  
 MPPT Charging: 6000W, 60-450VDC, Max. 80A  
 Recommended Charging Current: 40A  
 Maximum Charging Voltage: 58.4V  
 Maximum Charging Current: 200A  
 Recommended Discharging Current: 100A  
 Maximum Discharging Current: 200A  
 Supported Features: Bluetooth and App Support (Optional, extra charge required)

### Mechanical Specifications

Product Dimensions: 750 × 455 × 250 mm  
 Net Weight: 120 kg



## 51.2V 200Ah

10kWh battery pack single inverter 5500W  
 Battery type: LFP51.2V 200AH  
 Rated Power: 5000W  
 AC Voltage (Battery Mode): 230VAC (185-240VAC ±5%)  
 Cycle Life: 8000 cycles

### Function

AC Charging: Max. 80A  
 MPPT Charging: 6000W, 60-450VDC, Max. 80A  
 Recommended Charging Current: 40A  
 Maximum Charging Voltage: 58.4V  
 Maximum Charging Current: 200A  
 Recommended Discharging Current: 100A  
 Maximum Discharging Current: 200A  
 Supported Features: Bluetooth and App Support (Optional, extra charge required)

### Mechanical Specifications

Product dimensions (L × W × H) mm: 620 × 440 × 240mm  
 Product weight: 81.7KG



## 51.2V 600Ah

Available Power: 30720Wh  
 Rated Capacity: 600Ah  
 Battery cell configuration: 16S2P  
 Cycle life: ≥8000 cycles at 80% depth of discharge (DOD), 25°C

### Function

Number of parallels: It is recommended to connect 6 units in parallel (supports up to 16 units in parallel)  
 Remote data: Bluetooth (optional)/ Wifi  
 Protection Level: IP21

### Mechanical Specifications

Product dimensions (L × W × H) mm: 900 × 320 × 700 mm  
 Net weight: 224KG

### Charge & Discharge Specifications

Operating voltage range: 44.8V~58.4V  
 Rated charge and discharge current: 200A  
 Peak current: 200A Continuous@205A10S  
 Rated charge and discharge power: 7680Wh  
 Battery Management System Configuration: 16S200A 2P



## 24V 5500W

AC Output Voltage Range: AC185-220V/50-60Hz  
 Output Voltage/Frequency: 220V/50Hz  
 Output Power: 5500W  
 Charging Current: 20A-50A  
 Inverter Response Time: ≤ 5ms

### Function

AC Output Ports: 16A\*3  
 USB Output Ports: 24W\*4  
 Type-C: 5V/9V/24W\*2  
 Ambient Light: \*1  
 Emergency/Lighting Light: \*2  
 Supports DC Output 24V 100A  
 XT90 AC Charging Interface: \*1  
 Overload Protection: 6500W  
 Adapter: 110V-240V 30A 29.2V  
 Solar panel charging: MPPT12V-45V/500W(max)

### Mechanical Specifications

Main Unit Dimensions (W\*D\*H): 410\*320\*555MM  
 Trolley Rod Dimensions (W\*D\*H): 410\*320\*1010MM  
 Bare unit weight: 56.4KG

## Vietnam factory PV + Energy Storage: 5-Year Net Savings \$1.91M, 1Year Payback

ITEM	GRID-ONLY PLAN	PV + ENERGY STORAGE PLAN	REMARKS
<b>[Basic Data]</b>			
Daily kWh Used	6,000 kWh	6,000 kWh	1.98M kWh per year
Avg. Grid Price (USD/kWh)	\$0.22	\$0.22	
PV System	None	1020 kW	Daily generation 5,100 kWh
Energy Storage System	None	1,044 kWh	Discharge 991kWh, off-peak \$0.146
Operating days per year	330 days	330 days	
<b>[5-Year Cost Comparison]</b>			
5-year grid electricity cost (USD)	\$2,174,231	\$248,902	PV+storage yearly bill: \$49,780
PV investment (USD)	0	\$298,700	Turnkey cost of \$0.293/W
Energy storage investment (USD)	0	\$122,255	\$117/kWh
5-year O&M cost (USD)	0	\$35,139	PV \$4,539/yr + Storage \$2,489/yr
<b>5-year total cash outlay (USD)</b>	<b>\$2,174,231</b>	<b>\$701,318</b>	<b>Saves \$1,472,914</b>
5-yr net savings (excl. salvage) (USD)	-	\$1,472,914	
5-yr equipment salvage value (USD)	0	\$325,037	Residual: PV 80% + ESS 70%
5-yr net cost (excl. salvage) (USD)	\$2,174,231	\$376,281	
<b>5-yr net savings (incl. salvage)</b>	-	<b>\$1,797,950</b>	<b>Saves \$30,747/month</b>
Payback period (years)	-	1 year	
<b>[Annual Savings Details]</b>			
PV self-consumption annual benefit	-	\$370,425	1,683 MWh × \$0.22/kWh
Storage arbitrage annual revenue	-	\$21,962	900 kWh/day × 330 × \$0.0732/kWh
Total PV+storage electricity savings	-	\$392,386	
Grid-only annual elec. cost (USD)	\$434,846	-	
Post-installation annual elec. cost	-	\$42,460	
<b>[Energy Storage Added Value]</b>			
Backup power		991 kWh, 5h backup	
Peak shaving		Save \$73/day	
Voltage stabilization		Equipment protection	



## Vietnam Home PV + Storage: \$12,000 Net Savings in 5 Years, 1-Year Payback

ITEM	GRID-ONLY PLAN	PV + ENERGY STORAGE PLAN	REMARKS
<b>[Basic Data]</b>			
Daily kWh Used	30 kWh	30 kWh	10,950 kWh per year
Avg. Grid Price (USD/kWh)	\$0.22	\$0.22	Peak \$0.22, off-peak \$0.15/kWh
PV System	None	6,000 W	30 kWh/day, 10 x 600W PV panels
Energy Storage System	None	16 kWh	15kWh/d, off-peak \$0.15/kWh
Operating days per year	365 days	365 days	
<b>[5-Year Cost Comparison]</b>			
5-year grid electricity cost (USD)	\$12,045	\$0	PV+storage yearly bill: \$0
PV investment (USD)	\$0	\$1,800	Turnkey cost of \$0.3/W
Energy storage investment (USD)	\$0	\$1,168	\$73/kWh, 16kWh battery
Inverter investment	\$0	\$235	\$235/unit, for 6kW PV
<b>5-year total cash outlay (USD)</b>	<b>\$12,045</b>	<b>\$3,203</b>	<b>Saves \$8,842</b>
5-yr net savings (excl. salvage) (USD)	-	\$8,842	
5-yr equipment salvage value (USD)	0	\$2,258	Residual: PV 80% + ESS 70%
5-yr net cost (excl. salvage) (USD)	\$12,045	\$945	
<b>5-yr net savings (incl. salvage)</b>	-	<b>\$11,100</b>	<b>Saves \$185/month</b>
Payback period (years)	-	1 year	
<b>[Annual Savings Details]</b>			
PV self-consumption annual benefit	-	\$2,409	10,950 kWh × \$0.22/kWh
Storage arbitrage annual revenue	-	\$383	15 kWh/day × 365 × \$0.07/kWh
Total annual savings (USD)	-	\$2,792	
Grid-only annual elec. cost (USD)	\$2,409	-	
Post-installation annual elec. cost	-	\$0	
<b>[Energy Storage Added Value]</b>			
Backup power		16 kWh, 10h backup	
Peak shaving		Save \$1.1/day	
Voltage stabilization		Protect home appliances	



# RV Lithium Battery

Cutting-edge RV lithium battery technology, empowering enjoyable travel and leisure journeys!



## 12.8V 200Ah

### Electrical Specifications

Nominal Voltage: 12.8V  
Nominal Capacity: 200Ah  
Energy: 2.56Kwh  
Cycle Life: >4,000 cycles  
Connect in Parallel: Yes

### Function

Bluetooth: Yes, customized bluetooth APP acceptable  
Heating System: Optional  
Remote Diagnostics and Upgradation: Available

### Mechanical Specifications

Dimensions (L x W x H): 360\*330\*160mm 114.17\*12.99\*6.3"  
Weight: 27.6KG (60.9lb)  
Case Material & IP Rating: Steel, IP67

### Charge & Discharge Specifications

Charge Current: 100  
Continuous Discharge Current: 150  
Peak Discharge Current: 300  
Max. Charge Voltage: 14.6V  
Cut-off Voltage: 10V  
Battery Management System(BMS): Yes, built-in BMS protection



## 12.8V 280Ah

### Electrical Specifications

Nominal Voltage: 12.8V  
Nominal Capacity: 280Ah  
Energy: 3.584Kwh  
Cycle Life: >4,000 cycles  
Connect in Parallel: Yes

### Function

Bluetooth: Yes, customized bluetooth APP acceptable  
Heating System: Optional  
Remote Diagnostics and Upgradation: Available

### Mechanical Specifications

Dimensions (L x W x H): 580\*180\*270mm 122.83\*7.08\*10.63"  
Weight: 34KG(74.96lb)  
Case Material & IP Rating: Steel, IP67

### Charge & Discharge Specifications

Charge Current: 100  
Continuous Discharge Current: 200  
Peak Discharge Current: 400  
Max. Charge Voltage: 14.6V  
Cut-off Voltage: 10V  
Battery Management System(BMS): Yes, built-in BMS protection



## 12.8V 300Ah

### Electrical Specifications

Nominal Voltage: 12.8V  
Nominal Capacity: 300Ah  
Energy: 3.84Kwh  
Cycle Life: >4,000 cycles  
Connect in Parallel: Yes

### Function

Bluetooth: Yes, customized bluetooth APP acceptable  
Heating System: Optional  
Remote Diagnostics and Upgradation: Available

### Mechanical Specifications

Dimensions (L x W x H): 384\*194\*245mm 115.11\*7.64\*9.64"  
Weight: 28KG(61.73lb)  
Case Material & IP Rating: ABS, IP67

### Charge & Discharge Specifications

Charge Current: 100  
Continuous Discharge Current: 200  
Peak Discharge Current: 400  
Max. Charge Voltage: 14.6V  
Cut-off Voltage: 10V  
Battery Management System(BMS): Yes, built-in BMS protection



## 12.8V 519Ah

### Electrical Specifications

Nominal Voltage: 12.8V  
Nominal Capacity: 519Ah  
Energy: 6.643Kwh  
Cycle Life: >4,000 cycles  
Connect in Parallel: Yes

### Function

Bluetooth: Yes, customized bluetooth APP acceptable  
Heating System: Optional  
Remote Diagnostics and Upgradation: Available

### Mechanical Specifications

Dimensions (L x W x H): 404\*404\*254mm 115.9\*15.9\*10"  
Weight: 54.88KG(120.99lb)  
Case Material & IP Rating: Steel, IP67

### Charge & Discharge Specifications

Charge Current: 100  
Continuous Discharge Current: 200  
Peak Discharge Current: 400  
Max. Charge Voltage: 14.6V  
Cut-off Voltage: 10V  
Battery Management System(BMS): Yes, built-in BMS protection

# Golf Cart Lithium Battery

Cutting-edge high-density lithium battery technology, delivering long-lasting power on the course!



## 36V 105Ah

### Electrical Specifications

Nominal Voltage: 36V  
Nominal Capacity: 105Ah  
Energy: 4.03Kwh  
Standard Charge: 22A  
Discharge Current: 250A  
Max. Discharge: 500A

### Function

Bluetooth monitoring: Battery status can be checked by mobile phone in real-time  
SOC alarm function optional: When the SOC reach to 10%(can be set up lower or higher), the buzzer rings  
Self-heating function optional: Charged at freezing temperature  
High discharge current: Support high discharge current, 150A/200A/250A/300A. Good for hills climbing  
Quick Charge Time: 2.0h  
Standard Charge Time: 5.0h  
Battery Management System(BMS): Yes, built-in BMS protection

### Mechanical Specifications

Dimensions (L x W x H): 395\*312\*243mm  
Weight: 37KG (81.57lb)  
Case Material: Steel



## 51V 160Ah

### Electrical Specifications

Nominal Voltage: 51.2V  
Nominal Capacity: 160Ah  
Energy: 8.19Kwh  
Standard Charge: 22A  
Discharge Current: 250A  
Max. Discharge: 500A

### Function

Bluetooth monitoring: Battery status can be checked by mobile phone in real-time  
SOC alarm function optional: When the SOC reach to 10%(can be set up lower or higher), the buzzer rings  
Self-heating function optional: Charged at freezing temperature  
High discharge current: Support high discharge current, 150A/200A/250A/300A. Good for hills climbing  
Quick Charge Time: 3.0h  
Standard Charge Time: 7.5h  
Battery Management System(BMS): Yes, built-in BMS protection

### Mechanical Specifications

Dimensions (L x W x H): 615\*403\*200mm  
Weight: 72KG (158.73lb)  
Case Material: Steel



## 48V 105Ah

### Electrical Specifications

Nominal Voltage: 48V  
Nominal Capacity: 105Ah  
Energy: 5.37Kwh  
Standard Charge: 22A  
Discharge Current: 250A  
Max. Discharge: 500A

### Function

Bluetooth monitoring: Battery status can be checked by mobile phone in real-time  
SOC alarm function optional: When the SOC reach to 10%(can be set up lower or higher), the buzzer rings  
Self-heating function optional: Charged at freezing temperature  
High discharge current: Support high discharge current, 150A/200A/250A/300A. Good for hills climbing  
Quick Charge Time: 2.5h  
Standard Charge Time: 5.0h  
Battery Management System(BMS): Yes, built-in BMS protection

### Mechanical Specifications

Dimensions (L x W x H): 472\*312\*243mm  
Weight: 45KG (99.21lb)  
Case Material: Steel



## 72V 160Ah

### Electrical Specifications

Nominal Voltage: 72V  
Nominal Capacity: 160Ah  
Energy: 11.77Kwh  
Standard Charge: 15A  
Discharge Current: 250A  
Max. Discharge: 500A

### Function

Bluetooth monitoring: Battery status can be checked by mobile phone in real-time  
SOC alarm function optional: When the SOC reach to 10%(can be set up lower or higher), the buzzer rings  
Self-heating function optional: Charged at freezing temperature  
High discharge current: Support high discharge current, 150A/200A/250A/300A. Good for hills climbing  
Quick Charge Time: 3.0h  
Standard Charge Time: 10.5h  
Battery Management System(BMS): Yes, built-in BMS protection

### Mechanical Specifications

Dimensions (L x W x H): 847\*405\*230mm  
Weight: 115KG (253.53lb)  
Case Material: Steel

# Marine Lithium Battery

Cutting-edge marine lithium battery technology, escorting safe and long-distance navigation!



## 12V 100Ah

### Electrical Specifications

Nominal Voltage: 12.8V  
Nominal Capacity: 100Ah  
Energy: 1280Wh  
Cycle Life: >4,000 cycles  
Connect in Parallel: Yes

### Function

Bluetooth: Yes, customized bluetooth APP acceptable  
Heating System: Optional  
Remote Diagnostics and Upgradation: Available

### Mechanical Specifications

Dimensions (L x W x H): 329\*172\*214mm 12.9x6.77x8.42"  
Weight: 12.7kg(28lb)  
Case Material & IP Rating: ABS, IP67

### Charge & Discharge Specifications

Max. Charge Voltage: 14.6V  
Cut-off Voltage: 10V  
Charge Current: 100A  
Discharge Current: 100A  
Battery Management System(BMS): Yes, built-in BMS protection



## 36V 60Ah

### Electrical Specifications

Nominal Voltage: 38.4V  
Nominal Capacity: 60Ah  
Energy: 2.3KWh  
Cycle Life: >4,000 cycles  
Connect in Parallel: Yes

### Function

Bluetooth: Yes, customized bluetooth APP acceptable  
Heating System: Optional  
Remote Diagnostics and Upgradation: Available

### Mechanical Specifications

Dimensions (L x W x H): 329\*172\*214mm 12.95x6.77x8.43"  
Weight: 17.3KG(38.1lb)  
Case Material & IP Rating: ABS, IP67

### Charge & Discharge Specifications

Max. Charge Voltage: 43.8V  
Cut-off Voltage: 30V  
Charge Current: 30A  
Discharge Current: 60A  
Battery Management System(BMS): Yes, built-in BMS protection



## 24V 100Ah

### Electrical Specifications

Nominal Voltage: 25.6V  
Nominal Capacity: 105Ah  
Energy: 2688Wh  
Cycle Life: >4,000 cycles  
Connect in Parallel: Yes

### Function

Bluetooth: Yes, customized bluetooth APP acceptable  
Heating System: Optional  
Remote Diagnostics and Upgradation: Available

### Mechanical Specifications

Dimensions (L x W x H): 345\*190\*245mm 13.58x7.48x9.65"  
Weight: 21kg(46.3lb)  
Case Material & IP Rating: ABS, IP67

### Charge & Discharge Specifications

Max. Charge Voltage: 29.2V  
Cut-off Voltage: 20V  
Charge Current: 100A  
Discharge Current: 100A  
Battery Management System(BMS): Yes, built-in BMS protection



## 48V 150Ah

### Electrical Specifications

Nominal Voltage: 48V  
Nominal Capacity: 150Ah  
Energy: 7.2Kwh  
Cycle Life: >4,000 cycles  
Connect in Parallel: Yes

### Function

Bluetooth: Yes, customized bluetooth APP acceptable  
Heating System: Optional  
Remote Diagnostics and Upgradation: Available

### Mechanical Specifications

Dimensions (L x W x H): 640\*245\*220mm 25.20x9.65x8.66"  
Weight: 65KG(143.3lb)  
Case Material & IP Rating: ABS, IP67

### Charge & Discharge Specifications

Max. Charge Voltage: 54.75V  
Cut-off Voltage: 37.5V  
Charge Current: 75A  
Discharge Current: 150A  
Battery Management System(BMS): Yes, built-in BMS protection



### 48V 105Ah

#### Electrical Specifications

Nominal Voltage: 51.2V  
Nominal Capacity: 105Ah  
Energy: 5.37Kwh  
Cycle Life: >4,000 cycles  
Connect in Parallel: Yes

#### Function

Bluetooth: Yes, customized bluetooth APP acceptable  
Heating System: Optional  
Remote Diagnostics and Upgradation: Available

#### Mechanical Specifications

Dimensions (L x W x H): 472\*312\*243mm 18.58x12.28x9.57"  
Weight: 46.4KG(102.3lb)  
Case Material & IP Rating: Steel, IP67

#### Charge & Discharge Specifications

Charge Current: 50A  
Continuous Discharge Current: 100A  
Peak Discharge Current: 200A  
Max. Charge Voltage: 58.4V  
Cut-off Voltage: 40V  
Battery Management System(BMS): Yes, built-in BMS protection



### 72V 105Ah

#### Electrical Specifications

Nominal Voltage: 73.6V  
Nominal Capacity: 105Ah  
Energy: 7.728Kwh  
Cycle Life: >4,000 cycles  
Connect in Parallel: Yes

#### Function

Bluetooth: Yes, customized bluetooth APP acceptable  
Heating System: Optional  
Remote Diagnostics and Upgradation: Available

#### Mechanical Specifications

Dimensions (L x W x H): 559\*302\*273mm 22x11.88x10.75"  
Weight: 67kg(147.7lb)  
Case Material & IP Rating: Steel, IP67

#### Charge & Discharge Specifications

Charge Current: 100A  
Continuous Discharge Current: 100A  
Peak Discharge Current: 200A  
Max. Charge Voltage: 83.95V  
Cut-off Voltage: 57.5V  
Battery Management System(BMS): Yes, built-in BMS protection



### 48V 400Ah

#### Electrical Specifications

Nominal Voltage: 51.2V  
Nominal Capacity: 400Ah  
Energy: 20.48Kwh  
Cycle Life: >4,000 cycles  
Connect in Parallel: Yes

#### Function

Bluetooth: Yes, customized bluetooth APP acceptable  
Heating System: Optional  
Remote Diagnostics and Upgradation: Available

#### Mechanical Specifications

Dimensions (L x W x H): 664.4\*650\*470.2mm 26.15x25.59x18.5"  
Weight: 165KG(363.8lb)  
Case Material & IP Rating: Steel, IP67

#### Charge & Discharge Specifications

Charge Current: 50A  
Continuous Discharge Current: 150A  
Peak Discharge Current: 300A  
Max. Charge Voltage: 58.4V  
Cut-off Voltage: 40V  
Battery Management System(BMS): Yes, built-in BMS protection



### 96V 105Ah

#### Electrical Specifications

Nominal Voltage: 102.4V  
Nominal Capacity: 105Ah  
Energy: 10.752Kwh  
Cycle Life: >4,000 cycles  
Connect in Parallel: Yes

#### Function

Bluetooth: Yes, customized bluetooth APP acceptable  
Heating System: Optional  
Remote Diagnostics and Upgradation: Available

#### Mechanical Specifications

Dimensions (L x W x H): 880\*350\*273mm 34.64x17.78x10.75"  
Weight: 92kg(202.8lb)  
Case Material & IP Rating: Steel, IP67

#### Charge & Discharge Specifications

Charge Current: 100A  
Continuous Discharge Current: 250A  
Peak Discharge Current: 500A  
Max. Charge Voltage: 116.8V  
Cut-off Voltage: 80V  
Battery Management System(BMS): Yes, built-in BMS protection



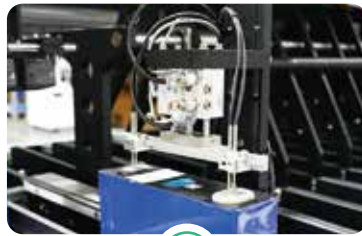
# Product Manufacturing Flow

Products are manufactured in strict accordance with ISO standardized production specifications.



01

Incoming Quality Control



02

Cell Sorting



03

Assembly Line Processing



06

Battery Aging Test



05

Battery Testing



04

Wiring & Connection



07

Finished Battery



08

Product Shipment



09

After-Sales Technical Support



# Core Competitive Advantages

## Cell Quality: 100% Original Grade A Cells from EVE Energy with Full Traceability

The long-term value and service life of an energy storage system depend on lowest-performing cell module in the system. Guided by this principle, VOLFUTR applies the industry's most stringent standards in cell selection.

As a strategic partner of EVE Energy, VOLFUTR uses **100% original brand-new Grade A prismatic and cylindrical cells** across all product lines. No recycled, downgraded, or falsely rated capacity cells are used. Each batch of cells is accompanied by an original factory quality inspection report,

supporting full customer audits and supply chain traceability verification.

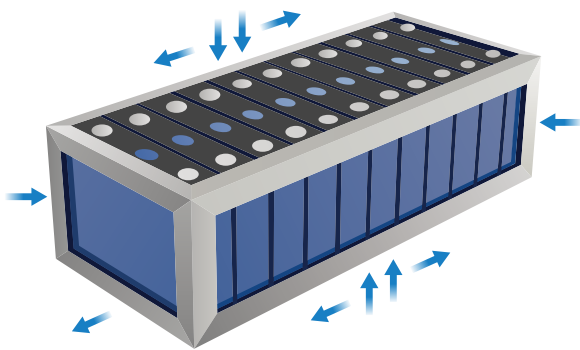
In addition, VOLFUTR adopts a **high-capacity prismatic cell architecture**. Compared with traditional solutions using more than 120 small-format cylindrical cells in parallel, the number of internal connection nodes is greatly reduced. This structurally minimizes voltage inconsistency and short-circuit risks, significantly improving overall system consistency and long-term stability.

## Certifications of Company & Products





## Manufacturing Process: Automated Laser Welding & Precision Manufacturing Standards

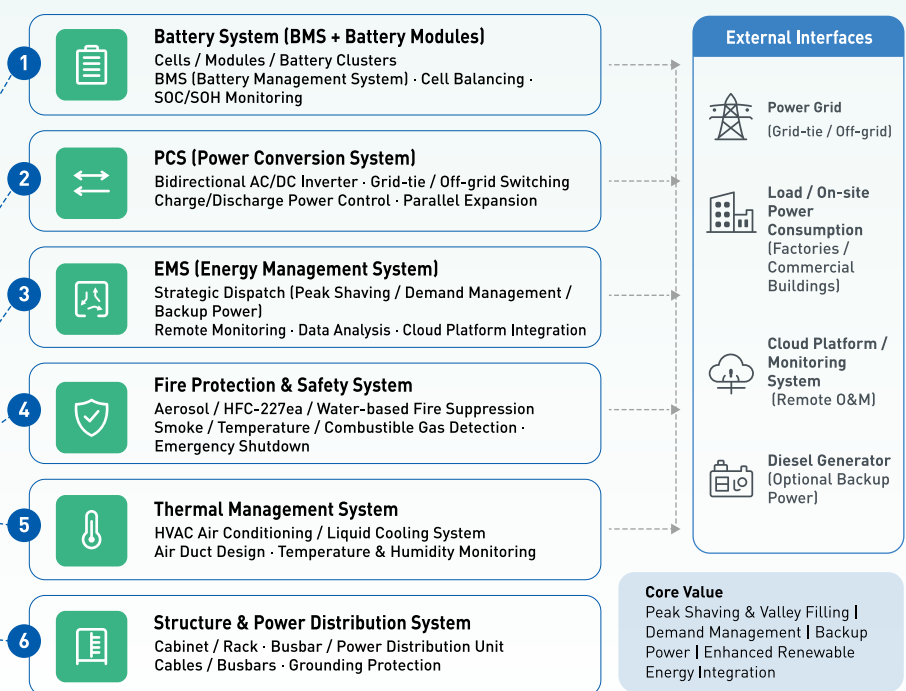


Exclusive Cell Holder structure with high-strength steel-reinforced enclosure delivers exceptional physical impact resistance.

Manufacturing technology directly determines the reliability and service life of products in actual working conditions. VOLFUTR has fully adopted automated laser welding technology in the production process to replace the traditional manual spot welding process, ensuring that the strength and consistency of each welding joint reach the top industrial level, thereby significantly reducing the failure rate and maintenance costs of products in high-vibration environments.

In terms of structural design, VOLFUTR has independently developed an exclusive **Cell Holder battery cell fixing structure**. Combined with the steel box reinforced outer shell, the product can withstand extreme physical impacts such as mining operations, marine navigation, and transportation on unpaved roads. This structural design has passed multiple severe environment tests, ensuring the system maintains structural integrity and high asset value throughout the entire life cycle.

### C&I ESS Cabinet: Core System Schematic



## Asia, Africa & Latin America • Off-Grid Energy Storage & Mining Power

We are promoting the connection and preparation for the implementation of energy storage and mining power battery projects in multiple countries. Our products adapt to extreme environments, supported by digital operation and maintenance to ensure long-term reliability.



# Global • Empowering Diverse Energy Storage



## Europe • High-End Industrial Power

We are in strategic cooperation negotiations with major French golf cart manufacturers. Our products have obtained CE certification and passed customer quality audits, and are ready for mass production and supply.

## Marine • Vessel Power Supply

Our marine solutions comply with NMEA 2000 standards. We are conducting in-depth technical cooperation with a number of global ship and yacht manufacturers, providing safe marine power solutions.



# Extreme Environment Adaptability

## Stable Operation at -40°C, Seamless Compatibility with Global Mainstream Systems

VOLFUTR is committed to providing global customers with energy solutions covering extreme working conditions, and has achieved technological breakthroughs especially in low-temperature performance and system compatibility.

In terms of low-temperature performance, VOLFUTR's self-developed sodium-ion (Na-ion) battery technology supports normal charging and discharging at an extreme low temperature of -40°C, providing feasible low-temperature startup solutions for severe cold regions in Northern Europe, high-altitude industrial and commercial energy storage, and polar engineering projects.

In terms of system compatibility, VOLFUTR products fully support the NMEA 2000 international marine communication protocol, and realize seamless docking with global mainstream inverter brands such as Victron, Deye and SMA. In addition, the products are equipped with Bluetooth real-time monitoring and remote fault diagnosis functions, enabling customers to achieve accurate digital operation and maintenance even in remote mining areas in Africa and other regions with weak infrastructure, without the need for resident professional engineers.





# 10-Year Warranty



## 10-Year Warranty

15 Years of Manufacturing  
Defect-Free Guarantee



## 24/7 Technical Support

Professional team providing  
technical support services.

## 15-Year Product Design Life with Full Warranty Against Manufacturing De- fects, Contract-Level Commitment

VOLFUTR fully understands that for B2B customers, the actual enforceability of warranty terms is far more critical than empty promotional promises. Therefore, the company adopts a transparent and rigorous warranty service model, with every commitment clearly stipulated in formal contract clauses.

VOLFUTR provides a **10-year standard warranty** for all its products. During the warranty period, for any product issue confirmed as a manufacturing defect, the company accepts full responsibility and provides free replacement without additional conditions or exceptions. The warranty clauses are clear and unambiguous, and are open to review and confirmation by customers' legal teams.

The company has a professional R&D team of more than 10 members, led by PhD-level technical experts, providing global customers with 24/7 technical support and emergency response services.



## Global Leader in Home & Industrial Energy Storage

Power Your Life, Power Your World

We specialize in the R&D, manufacturing and services of clean energy storage and power lithium battery systems. Our products are widely used in **residential energy storage, commercial & industrial energy storage, marine, golf carts, RVs, emergency power supplies, outdoor base stations and other applications**. We are committed to promoting the development of sustainable energy.


## CONTACT US





Whatsapp



WeChat

 No. 433, Langwang Avenue, Shangwang Administrative Village,  
Minzhong Subdistrict, Zhongshan City, Guangdong Province

 Mobile: +86 189 3333 7337       [service@volfutr.com](mailto:service@volfutr.com)

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