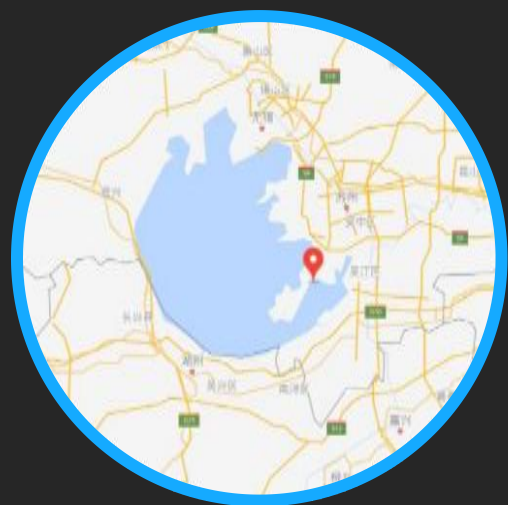


One-stop smart new energy solutions pioneer

智慧新能源解决方案领跑者

Smart, Efficient and Reliable use of Energy



DSBJ(002384) Investment, 5A scenic area Suzhou Taihu Lake headquarters base.
Toprun established in June 2010, adhering to the business philosophy of "All for customers,
all from quality". Main smart energy storage system and magnetic
components, committed to achieve efficient, clean and reliable smart applications of
electric energy. Toprun always provides first-class service to local and global customers.

62 items

R&d technology patent

2 items

**Participate in the
development of
national standards**

10%

**Annual investment
in research and
development**

Lead green development

Build a clean and beautiful world

2010
Toprun
founded

2012
Participate
in rail transit

2015
Listed on the
New Third Board


2018
Develop energy
storage industry

2020
Started
new factory

2023
Start the
internationalization process


Core technology enables industry ecology

Safe•Reliable




Strictly control the screening,
manufacturing, use, and pre production of
lithium batteries.
Supported by top international LFP and
power conversion research teams

Efficient•Control



Actual efficiency of 88.72%>peer 88%
Extreme standardization and minimum
material variety.

Science•Profit



Standard self-developed, cost advantage,
data support.
Scientific discharge, practicing low-carbon,
and doubling profits.

Business Partners

阳光电源
SUNGROW

 上能电气
SINENG

GROWATT

 CHNT
正泰电器

 中国中车
CRRC

 CRSC

 南京华士电子科技有限公司
NANJING HUASHI ELECTRONIC SCIENTIFIC CO.,LTD.

 上海地铁
Shanghai Metro

 Danfoss

HITACHI
Inspire the Next

 TX

FUJITEC

TOSHIBA

ABB

 SANY

NARI
南瑞集团
NARI GROUP CORPORATION

 国家电网公司
STATE GRID
CORPORATION OF CHINA

 CASC
中国航天

 湘电股份



One-degree outdoor energy storage

- ✓ **Small size:** Easy to carry, suitable for camping, picnic, RV and other outdoor activities
- ✓ **Safe and portable:** Small size, light weight, easy to carry and use, improve the convenience of outdoor operations.
- ✓ **Rich interfaces:** Rich interface, electricity freedom. 3 types of input modes, 6 types of output ports.
- ✓ **Charging fast:** New double fast charge, 1 hour full power, with solar panels, refuse power anxiety.



System Parameter

Battery Capacity: 1080Wh

Ac Continuous Output: 1200W

Ac Peak Power: 2400W

Working Environment Temperature: -10 ~ 45°C

Battery Type: ternary lithium battery

Charging Time: 1.0-1.5 h (AC only)

Weight: 9.5±0.2kg

Size (W*D*H) : 300mm*215mm*195mm

Energy Storage for Smart Households

Store clean energy for you! Implementing optimized management of household electricity consumption and improving energy utilization efficiency through intelligent control technology. When the household demand for electricity increases or the power grid fluctuates, the household energy storage system can respond quickly, release the stored energy, provide you with a stable and reliable power supply, and achieve a green and low-carbon life.



Single-phase System Parameter

Module type: 5KW

Rated voltage: 220V

Output current: 21.7A

Protection level: IP54

Power: 5.12kWh~20.48kWh

Three-phase System Parameter

Module type: 10KW

Rated voltage: 380V

Output current: 15.9A

Protection level: IP54

Power: 15.6kWh~20.48kWh



Smart Industrial and Commercial Standard Storage Cabinet

- ✓ **Intelligent operation strategy:** Intelligent operation control algorithm model, adapt to the actual environment, the pursuit of higher revenue.
- ✓ **Multi-service scenario:** Flexible for various business scenarios such as photovoltaic, energy storage, charging pile, optical storage, and integrated optical storage and charging.
- ✓ **Cloud integration:** The cloud and station architecture can realize both local deployment of a single station and cloud management of station groups.
- ✓ **Flexible configuration:** B/S architecture for rapid deployment and easy maintenance.





200kWh System Parameter

Rated Capacity: 200kWh

Rated Output Power: 100kW

Dimensions(W*D*H): 1800mm*1200mm*2570mm

Net Weight per Module: 2.6T

Cooling Mode: Air cooling (Industrial air conditioning)

Ingress Protection: IP54

Operation Temperature : - 20°C ~ + 55°C

215kWh System Parameter

Rated Capacity: 215kWh

Rated Output Power: 100kW

Dimensions(W*D*H): 1900mm*1511mm*2366mm

Net Weight per Module: 2.8T

Cooling Mode: Air cooling (Industrial air conditioning)

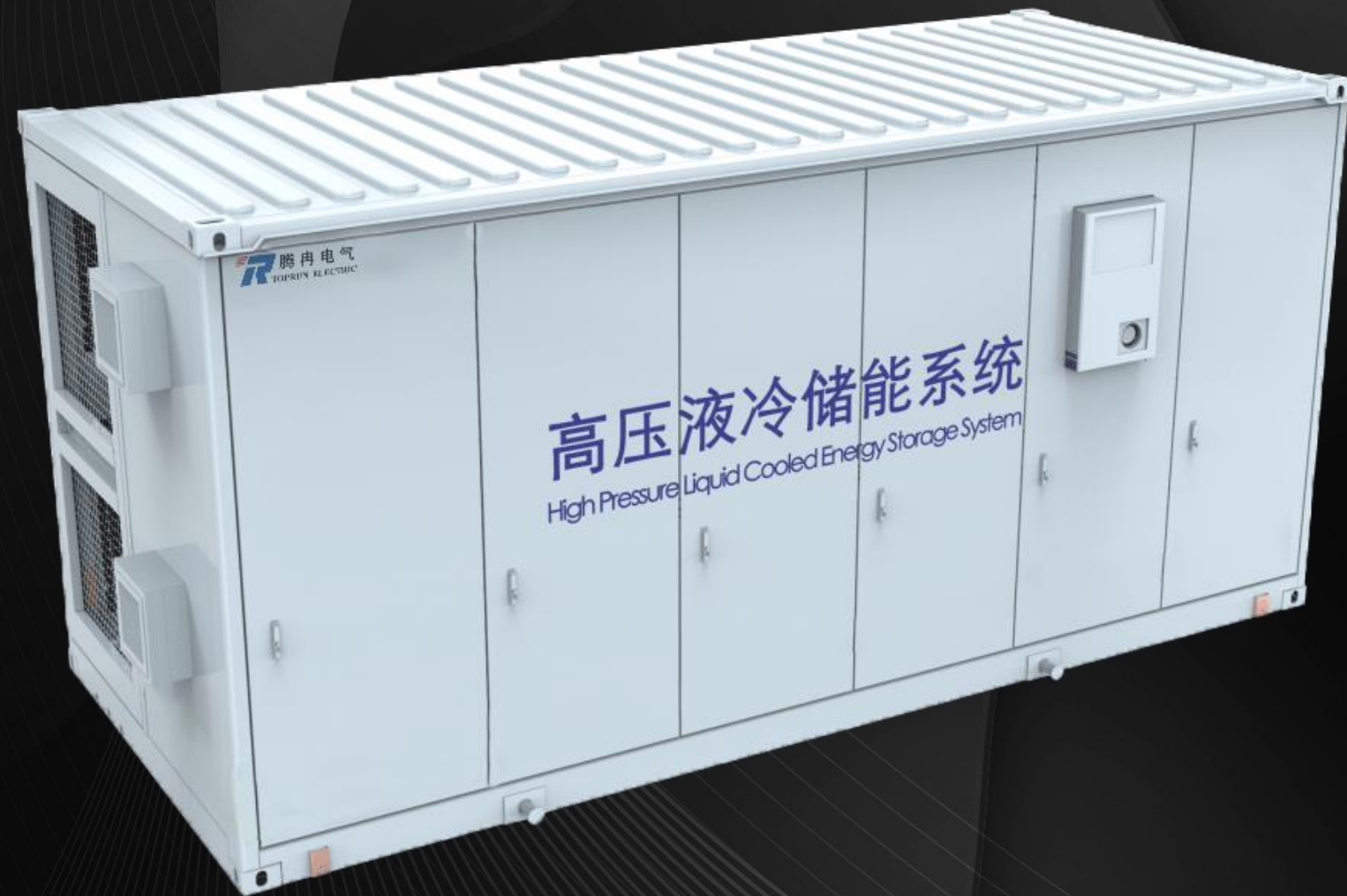
Ingress Protection: IP54

Operation Temperature : - 20°C ~ + 55°C



20-foot Liquid-cooling Standard Storage Tank

- ✓ **High Security:** Select lithium iron phosphate cell with high thermal stability. P54 protection grade for outdoor applications.
- ✓ **High Integration:** Standardized interface, flexible access, plug and apply. Modular design, multi-machine parallel, easy to expand.
- ✓ **High Intelligence:** Intelligent EMS system with various functions. Digital system, rapid diagnosis, support for remote monitoring.



System Parameter

Rated Capacity: 3.44MWh

Rated Output Power: 1.72MW

Dimensions(W*D*H): 6058mm*2438mm*2896mm

Net Weight per Module:<34t

Cooling Method: liquid-cooling

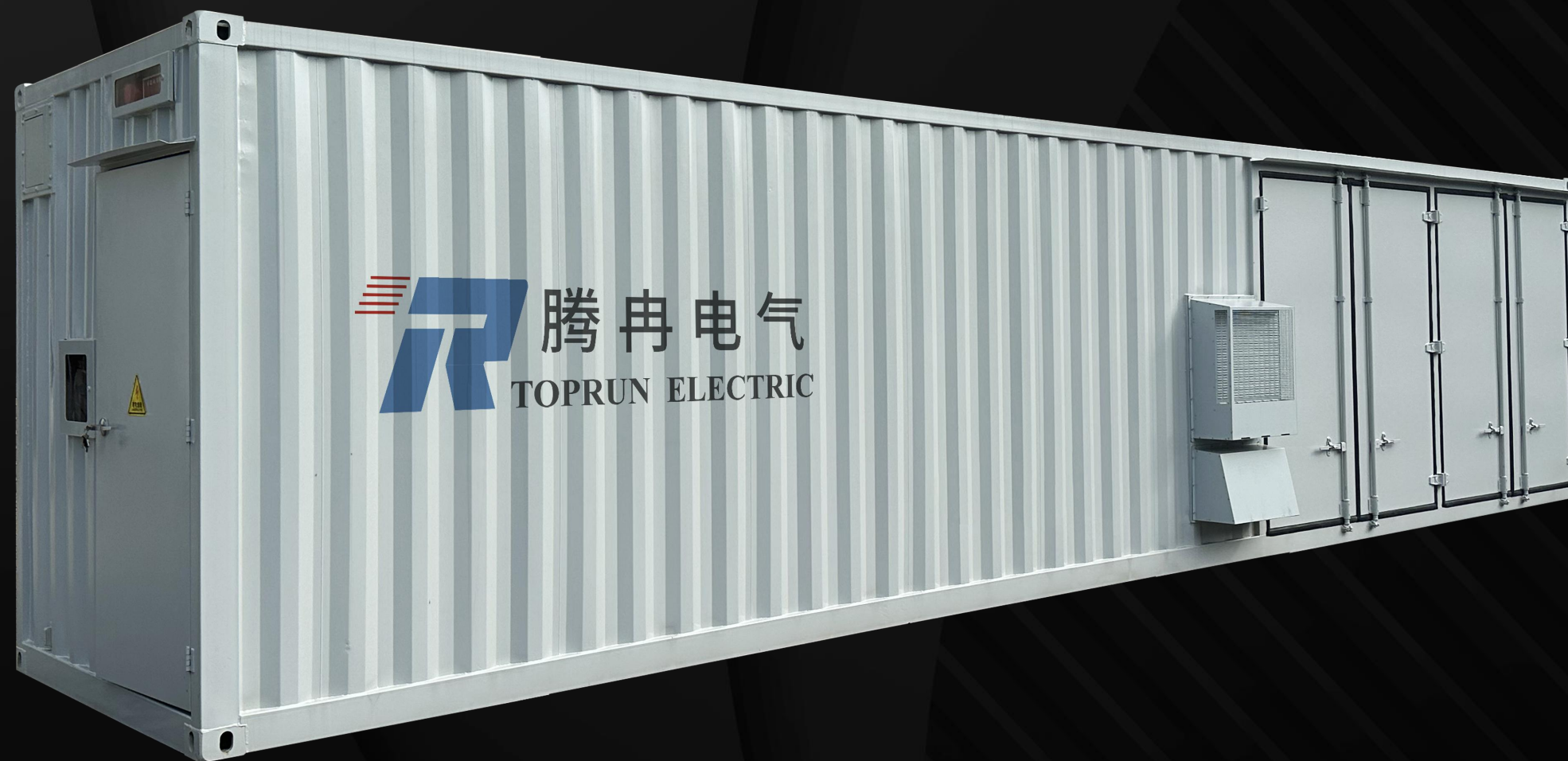
Protection Class: IP54

Energy Cycle Efficiency: $\geq 94\%$

40-foot Storage Standard Container

- ✓ High Security: Lithium iron phosphate cell with high thermal stability is selected. IP54 protection grade for outdoor applications.
- ✓ High Integration: Standardized interface, flexible access, plug and play. Modular design, multi-machine parallel, easy to expand.
- ✓ High Intelligence: Intelligent EMS system with various functions. Digital system, rapid diagnosis, support for remote monitoring.





System Parameter

Rated Capacity: 6.88MWh

Rated Output Power: 3.44MW

Dimensions(W*D*H): 12116mm*4876mm*2896mm

Net Weight per Module:<68t

Cooling Method: liquid-cooling

Protection Class: IP54

Energy Cycle Efficiency: $\geq 94\%$

Smart Energy Cloud Platform

- Equipped with comprehensive data collection and monitoring system functions
- Seamlessly access the dispatch center system and receive charge and discharge control commands from the dispatch center.
- Proactively upload BMS and inverter device information to the dispatch center.
- Advanced control strategy is adopted to achieve a variety of application scenarios such as peak and frequency regulation, peak and valley arbitrage, and maximum demand reduction.
- Support local monitoring and cloud monitoring linkage.



Project Case



Location: South Africa

Configuration: Energy Storage Power Station

Scale: 300kW/645kWh

Result: Successful acceptance



Project Location: Suzhou, China

Project Configuration: Energy storage

Project Scale: 1MW/2MWh

Project Progress: Successful acceptance



Location: Burma

Configuration: Energy Storage Power Station

Scale: 3.44W/6.88MWh

Result: Successful acceptance



Location: Kunshan, China

Configuration: Photovoltaic + Energy storage

Project Scale: 400kWp+300kW/600kWh

Project Progress: Successful acceptance



Location: Suzhou, China

Configuration: Energy storage

Scale: 0.72MW/1.6MWh

Result: Successful acceptance



Location: Vietnam

Configuration: Energy Storage Power Station

Scale: 400kW/1.6MWh

Result: Successful acceptance

Project Case



Location: Shanghai, China

Configuration: Distributed PV project

Scale: 2.3MW

Result: Successful acceptance



Location: Suzhou, China

Configuration: Energy Storage Power Station

Scale: 600kW/1.2MWh

Result: Successful acceptance



Location: Shanghai, China

Configuration: ESS cabinet+Distributed PV project

Scale: 1MW/2MWh+1.2MW

Result: Successful acceptance



Location: Chuzhou, China

Configuration: Distributed PV project

Scale: 2MW

Result: Successful acceptance



Location: Shanghai, China

Configuration: Distributed PV project

Scale: 1.86MW

Result: Successful acceptance



Location: Ningbo, China

Configuration: Energy Storage Power Station

Scale: 100kW/215kWh


Result: Successful acceptance

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