

The logo features a stylized 'S' on the left, followed by a square icon containing three vertical bars of increasing height. To the right of the icon is the word 'SYNVISTA' in a bold, sans-serif font, and below it, the word 'Synvista' in a larger, white, sans-serif font.

# Synvista

Brochure 2024

Singapore



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# COMPANY OVERVIEW







**Synvista**, focuses on the R&D and manufacturing of long-life, high-safety new electrical energy storage systems, providing timely operation assurance and integrated system solutions to its clients.



**EDGE BESS**



**BESS CARE**



**BESS AGILE  
OEM/ODM**

**SAFETY**  
**RELIABLE**  
**EFFICIENT**

# Global Business Layout

Providing professional and reliable OEM and ODM services for energy storage systems.



**Singapore**  
Headquarters



**USA**  
Subsidiary



**China**  
Manufacturing Base







**Safe**

**+**

**Reliable**

**+**

**Longlasting**

**=**

**Shaping the  
Future of Energy  
Storage Systems**



# Manufacturing service capability



Production and manufacturing



Security management



Delivery guarantee



Supply chain management



# Production Capacity

## High reliability *Pack* production line

Human-machine collaboration , high quality and efficiency.

High reliability , high consistency.



Pack annual production capacity: **10GWh**

Integrated production capacity of DC cabin: **5GWh**

# After-sales Service



Ensure that the customers experience throughout the entire service process is continuous and satisfactory, and improve service quality and efficiency by continuously optimizing and iterating the service process.

## Network

- Co-building after-sales service stations with customers.
- Started in Europe.

## Repair & Recycling

- Repair & Return
- Configuration
- Warranty Validation
- Product and Software Upgrade
- Asset / Scrap recovery

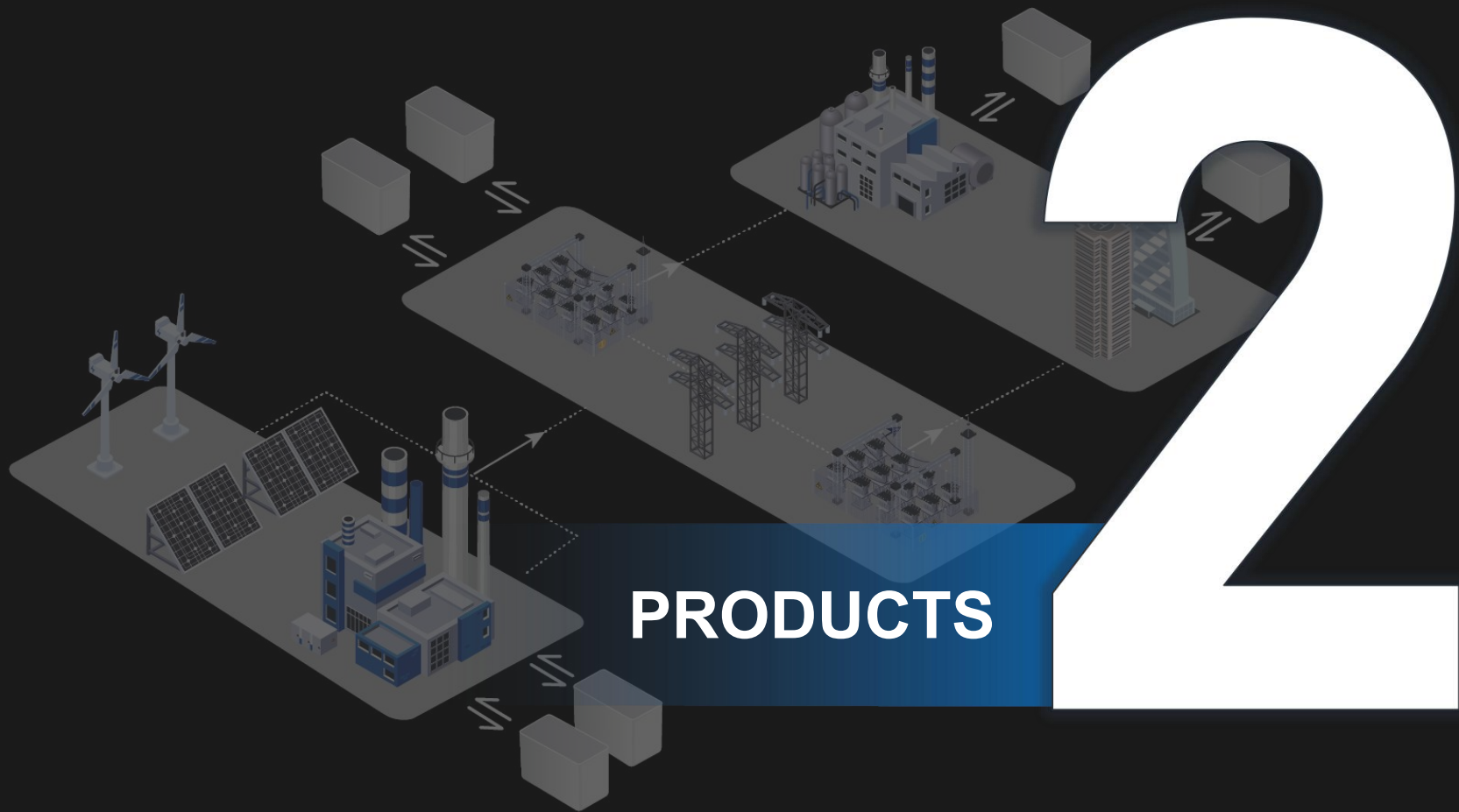
## Engineering

- Training
- AI proactive warning
- Online technical support by experts

## Logistics

- Spare parts management





**PRODUCTS**



4x13

Synvista & CATL



inside

# 0.5P Battery Pack

Technical Indicators		Parameter
Battery	Rated capacity (Ah)	314
	Method	1P52S
Battery PACK	Rated energy (kWh)	52.24
	Rated voltage (V)	166.4
	Operating voltage range (V)	130-189.8
	Cooling mode	Liquid cooling
	Weight (kg)	339±5
	Size(mm) (L×W×H)	1160X810x245



High security



High efficiency

- Battery Cell AI Life Prediction and Fault Warning
- Efficient System Thermal Management
- Force Dimension Detection
- Smart manufacturing





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# 0.5P

## BESS DC container

Technical Indicators		Parameter
Battery	Rated capacity (Ah)	314
	Method	12P416S
Rated energy (MWh)		5.015
Rated voltage (V)		1331.2
System efficiency		≥93%
Lifetime		6000 times
Cooling mode		Liquid cooling
Basic parameters	Size (W×H×D)	6250x2650x3100mm
	Weight (T)	≤ 45



High security



High efficiency



High integration

- Algorithm and Control Strategy
- Power Station Energy Management and Coordinated Control
- High-Reliability System Architecture Integration
- Battery Cell AI Life Prediction and Fault Warning
- Reliability Evaluation and Enhancement
- Smart manufacturing
- Power Station Energy Management and Coordinated Control
- Force Dimension Detection
- Big Data AI Applications



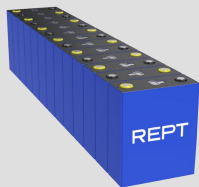
Under Certification





8x13

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# 104<sub>s</sub> 0.5P Battery Pack

Technical Indicators		Parameter
Battery	Rated capacity (Ah)	314
	Method	1P104S
Battery PACK	Rated energy (kWh)	104.49
	Rated voltage (V)	332.8
	Operating voltage range (V)	260-379.6
	Cooling mode	Liquid cooling
	Weight (kg)	684±5
	Size(mm) (L×W×H)	2180×790×245



High security



High efficiency

- Battery Cell AI Life Prediction and Fault Warning
- Efficient System Thermal Management
- Force Dimension Detection
- Smart manufacturing





Synvista & REPT



104s

0.5P

BESS DC container

Technical Indicators		Parameter
Battery	Rated capacity (Ah)	314
	Method	12P416S
Rated energy (MWh)		5.015
Rated voltage (V)		1331.2
System efficiency		≥93%
Lifetime		6000 times
Cooling mode		Liquid cooling
Basic parameters	Size(mm) (W×H×D)	6058x2438x2896
	Weight (T)	≤ 43



High security



High efficiency

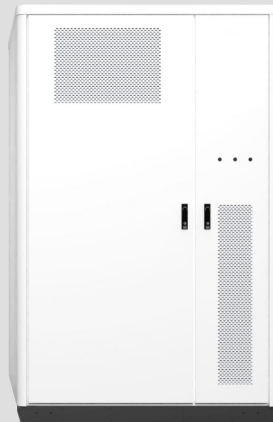


High integration

- Algorithm and Control Strategy
- Power Station Energy Management and Coordinated Control
- High-Reliability System Architecture Integration
- Battery Cell AI Life Prediction and Fault Warning
- Reliability Evaluation and Enhancement
- Smart manufacturing
- Power Station Energy Management and Coordinated Control
- Force Dimension Detection
- Big Data AI Applications



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# 0.5P

## Energy Storage Outdoor Cabinet



High security



High efficiency



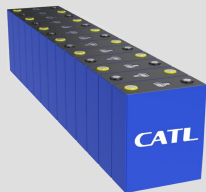
High integration

- Efficient System Thermal Management
- Force Dimension Detection
- High-Reliability System Architecture Integration
- Smart manufacturing

Technical Indicators		Parameter
Battery	Rated capacity (Ah)	314
Number of energy storage modules		5
Rated energy (kWh)		261.248
Battery PACK capacity (kWh)		52.2
Operating voltage range (V)		DC 650~949
Service life		≥6000, at a temperature of 25±2℃, 95%DOD, EOL≥80%
Fire protection system (optional)		Pack-level detection, pack-level fireprotection, Battery compartment (aerosol, perfluorohexane)
Cooling mode		Liquid cooling
Basic parameters	Size(mm) (H×W×D)	2300×1350×1350
	Weight (T)	3



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# 1P

## Battery Pack

Technical Indicators		Parameter
Battery	Rated capacity (Ah)	285
	Method	1P52S
Battery PACK	Rated energy (kWh)	47.42
	Rated voltage (V)	166.4
	Operating voltage range (V)	130-189.8
	Cooling mode	Liquid cooling
	Weight (kg)	336±5
	Size(mm) (L×W×H)	1160X810x245



High security



High efficiency

- Battery Cell AI Life Prediction and Fault Warning
- Efficient System Thermal Management
- Force Dimension Detection
- Smart manufacturing





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# 1P

## BESS DC container

Technical Indicators		Parameter
Battery	Rated capacity (Ah)	285
	Method	8P416S
	Rated energy (MWh)	3.035
	Rated voltage (V)	1331.2
	System efficiency	≥93%
Lifetime		6000 times
Cooling mode		Liquid cooling
Basic parameters	Size(mm) (W×H×D)	6058×2438×2896
	Weight (T)	≤35



High security



High efficiency



High integration

- Algorithm and Control Strategy
- Power Station Energy Management and Coordinated Control
- High-Reliability System Architecture Integration
- Battery Cell AI Life Prediction and Fault Warning
- Reliability Evaluation and Enhancement
- Smart manufacturing
- Power Station Energy Management and Coordinated Control
- Force Dimension Detection
- Big Data AI Applications





# 3

**Successful Cases**



# Successful Cases



Songjialong Shared Energy Storage Station, **100MW/200MWh**



Yaodu Independent Shared Energy Storage Station **100MW/200MWh**



Yongxiu Energy Storage Station  
**1P, 30MW/30MWh**



Xiangbei Energy Storage Station,  
**90MW/180MWh**



Tonghe Energy Storage Station  
**30MW/60MWh, -41°C**



Cuomei Energy Storage Station  
**6MW/24MWh, Altitude 4800m**



C&I Energy Storage Project,  
High-Energy Enterprises



Distributed PV with Energy Storage



# Successful Cases



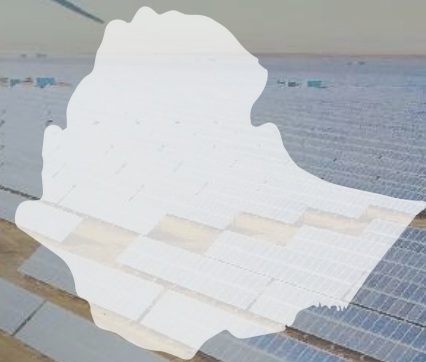
New Zealand PV project  
861 MW



Spain PV project  
97 MW



Italy PV project  
88 MW



Ethiopia PV project  
17 MWh





**Supply Chain**





CATL



EVE



REPT



HITHIUM



POWER ELECTRONICS



SUNGROW



SMA



Sinexcel



Jinko Solar



TrinaStorage



GOLDWIND



**GENERATE  
FOR  
GENERATIONS**

