

YIY

BLESS

Energy Storage System Solutions

May energy and ecology be more harmonious



ZHEJIANG YIYEN HOLDING GROUP

Zhejiang Yiyuan Holding Group Co., Ltd. is committed to the research and development and intelligent manufacturing of power electronics technology. With the aim of reducing electricity costs and improving electricity efficiency; A high-tech enterprise that provides core power equipment and system solutions for the energy Internet of Things. The company takes electrochemical energy storage and energy efficiency management as its core industries, providing energy-saving and consumption-reducing services for industries such as power, communication, finance, education, healthcare, and large industrial and mining enterprises.

The company has established R&D centers in Shenzhen, Nanjing and Hangzhou, and has set up joint laboratories with Hohai University, Tsinghua University, Nanjing University of Aeronautics and Astronautics and the Hong Kong Polytechnic University. With its strong technological strength, it was the first to pass international certifications such as CE, UL, TUV and CQC. Its products are sold in over 130 countries and regions, and it has gained an international market position. As a core industry, it provides energy-saving and consumption-reducing services for industries such as power, communication, finance, education, healthcare, and large industrial and mining enterprises.

300+

Staff



30000m²+

Plant Area



15 years +

Years Experience



3GWH+/year

Delivered Capacity



ENTERPRISE ARCHITECTURE



ZHEJIANG YIYEN HOLDING GROUP



Lishui Yiyen Technology
CO.,LTD



Factory



Wenzhou Yiyen Supply Chain
Management CO.,LTD



Marketing/Sales/Sourcing
Total Solutions and Technical Services



Wenzhou Yiyen Energy
Development CO.,LTD



EPC Service Provider for New Energy and
Energy Storage Plants
Contract Energy Management
(Domestic Only)



Nanjing Branch
Shenzhen Branch
Hangzhou Branch



R&D Center

50+

R&D Staff



130+

Export Countries



100+

Intellectual Properties



BMS

12V~1500V
Voltage Class



Qualification Certification

ISO9001



**QUALITY MANAGEMENT SYSTEM
CERTIFICATE**

Certificate No.: 2022Q21193R0S

We hereby certify that the organization:

LISHUI YIYEN TECHNOLOGY COMPANY LIMITED

Unified social credit code: 91331127MA2E079Y8T

is in conformity with Quality Management System Standard:

GB/T19001-2016 idt ISO9001:2015

The certificate is valid to the following products/service:

The assembling of Voltage Stabilizer, Inverter, Photovoltaic Equipment (MPPT Solar Charger, PCS), Uninterruptible Power Supply, Emergency Power Supply, Battery Pack Energy Storage System, Battery Management System (BMS)

Registration Address/Audit Address: No.77,Xiang Long Road,Lian Du Zone,Lishui City,Zhejiang Province, China.

Date of Issue: 26-09-2022
Date of Expiry: 25-09-2025
Date of Initial: 26-09-2022

Issued By 

  中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C197-M





The audit of validity of the certificate, the certificate shall be at least once a year.
The effectiveness of the Certificate is subject to QR Code in the lower left corner.
Meanwhile, you can search the website of certification body: www.qpc.org.cn
or search the CNCA website: www.cnca.gov.cn

ZHEJIANG QUANPIN CERTIFICATION CO.,LTD.
Room 603, Floor 6, Building 1, No.74, Puyan Road, Puyan Street, Binjiang District, Hangzhou City,
Zhejiang Province, China 310053 WEB: <http://www.qpc.org.cn>

ISO45001



**OCCUPATIONAL HEALTH AND SAFETY
MANAGEMENT SYSTEM CERTIFICATE**

Certificate No.: 2022S20467R0S

We hereby certify that the organization:

LISHUI YIYEN TECHNOLOGY COMPANY LIMITED

Unified social credit code: 91331127MA2E079Y8T

is in conformity with Occupational Health Safety Management System Standard:

GB/T45001-2020 idt ISO45001:2018

The certificate is valid to the following products/service:

The assembly and related management activities of Voltage Stabilizer, Inverter, Photovoltaic Equipment (MPPT Solar Charger, PCS), Uninterruptible Power Supply, Emergency Power Supply, Battery Pack Energy Storage System, Battery Management System (BMS)

Registration Address/Audit Address: No.77,Xiang Long Road,Lian Du Zone,Lishui City,Zhejiang Province, China.

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Room 603, Floor 6, Building 1, No.74, Puyan Road, Puyan Street, Binjiang District, Hangzhou City,
Zhejiang Province, China 310053 WEB: <http://www.qpc.org.cn>

ISO14001



**ENVIRONMENTAL MANAGEMENT
SYSTEM CERTIFICATE**

Certificate No.: 2022E20495R0S

We hereby certify that the organization:

LISHUI YIYEN TECHNOLOGY COMPANY LIMITED

Unified social credit code: 91331127MA2E079Y8T

is in conformity with Environmental Management System Standard:

GB/T24001-2016 idt ISO14001:2015

The certificate is valid to the following products/service:

The assembly and related management activities of Voltage Stabilizer, Inverter, Photovoltaic Equipment (MPPT Solar Charger, PCS), Uninterruptible Power Supply, Emergency Power Supply, Battery Pack Energy Storage System, Battery Management System (BMS)

Registration Address/Audit Address: No.77,Xiang Long Road,Lian Du Zone,Lishui City,Zhejiang Province, China.

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The effectiveness of the Certificate is subject to QR Code in the lower left corner.
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ZHEJIANG QUANPIN CERTIFICATION CO.,LTD.
Room 603, Floor 6, Building 1, No.74, Puyan Road, Puyan Street, Binjiang District, Hangzhou City,
Zhejiang Province, China 310053 WEB: <http://www.qpc.org.cn>

		Ref. Certif. No. NL-10607
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE CB Scheme)		
CB TEST CERTIFICATE		
Product	Rechargeable Li-Ion Battery Pack	
Name and address of the applicant	LISHUI YIYEN TECHNOLOGY CO., LTD No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui, Zhejiang 323000 China	
Name and address of the manufacturer	LISHUI YIYEN TECHNOLOGY CO., LTD No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui, Zhejiang 323000 China	
Name and address of the factory	LISHUI YIYEN TECHNOLOGY CO., LTD No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui, Zhejiang 323000 China	
When more than one factory	Additional information on page 2	
Ratings and principal characteristics	Product data Ratings: 51.2V, 200Ah	
Trademark / Brand (if any)		
Customer's Testing Facility (CTF) Stage used	LFP-M 4B20H	
Model / Type Ref.	Additional information on page 2	
Additional information	IEC 62619:2022 6186331.50	
A sample of the product was tested and found to be in conformity with As shown in the Test Report Ref. No. which forms part of this Certificate		
This CB Test Certificate is issued by the National Certification Body		
DEKRA Certification B.V. Maander 101 6825 MJ Arnhem Netherlands Date: 2024-07-03  Signature: May Lu 		
Page 1 of 1		

		Ref. Certif. No. NL-106704
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE CB Scheme)		
CB TEST CERTIFICATE		
Product	Rechargeable Li-Ion Battery Cluster	
Name and address of the applicant	LISHUI YIYEN TECHNOLOGY CO., LTD No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui, Zhejiang 323000 China	
Name and address of the manufacturer	LISHUI YIYEN TECHNOLOGY CO., LTD No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui, Zhejiang 323000 China	
Name and address of the factory	LISHUI YIYEN TECHNOLOGY CO., LTD No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui, Zhejiang 323000 China	
When more than one factory	Additional information on page 2	
Ratings and principal characteristics	Product data Ratings: 768V, 20Ah	
Trademark / Brand (if any)		
Customer's Testing Facility (CTF) Stage used	LFP-S 76B20	
Model / Type Ref.	Additional information on page 2	
Additional information	IEC 62619:2022 6186325.50	
A sample of the product was tested and found to be in conformity with As shown in the Test Report Ref. No. which forms part of this Certificate		
This CB Test Certificate is issued by the National Certification Body		
DEKRA Certification B.V. Maander 101 6825 MJ Arnhem Netherlands Date: 2024-07-04  Signature: MT Torsi 		
Page 1 of 1		

		Ref. Certif. No. NL-106472A1
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE CB Scheme)		
CB TEST CERTIFICATE		
Product	Rechargeable Li-Ion Battery System	
Name and address of the applicant	LISHUI YIYEN TECHNOLOGY CO., LTD No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui, Zhejiang 323000 China	
Name and address of the manufacturer	LISHUI YIYEN TECHNOLOGY CO., LTD No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui, Zhejiang 323000 China	
Name and address of the factory	LISHUI YIYEN TECHNOLOGY CO., LTD No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui, Zhejiang 323000 China	
When more than one factory	Additional information on page 2	
Ratings and principal characteristics	Product data Ratings: 768 Vdc, 105 Ah, 80 Wh	
Trademark / Brand (if any)		
Customer's Testing Facility (CTF) Stage used	BESS-60-80	
Model / Type Ref.	Additional information on page 2	
Additional information	IEC 62619:2022 Comments: This CB test certificate replaces CB test certificate NL 106472. Correction for typo in test report. 6174216.51	
A sample of the product was tested and found to be in conformity with As shown in the Test Report Ref. No. which forms part of this Certificate		
This CB Test Certificate is issued by the National Certification Body		
DEKRA Certification B.V. Maander 101 6825 MJ Arnhem Netherlands Date: 2024-06-24  Signature: K. Lin 		
Page 1 of 1		

		ATTESTATION OF CONFORMITY
Issued to:	LISHUI YIYEN TECHNOLOGY CO., LTD (Lijng National Industrial Park) No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui City, Zhejiang Province, P.R. China	
For the product:	Energy Storage Battery	
Trade name:	YIY	
Type/Model:	LFP-M 4B20H	
Ratings:	See model list	
Manufactured by:	LISHUI YIYEN TECHNOLOGY CO., LTD (Lijng National Industrial Park) No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui City, Zhejiang Province, P.R. China	
Requirements:	EN IEC 61000-6-2:2019 EN IEC 61000-6-4:2019	
This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6186331.50		
This Attestation implies that the examined types are in accordance with the standards designated under the Electromagnetic compatibility directive 2014/53/EU		
The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of its production with the specimen tested by DEKRA is not the responsibility of DEKRA.		
The CE marking may be affixed on the product if all relevant and effective EC directives are complied with.		
Amhem, 24 April 2024 Number: 6186331.51AOC		
DEKRA Testing and Certification (Shanghai) Ltd.  Kerry Lin Certification Manager © Integral publication of this attestation and adjoining reports is allowed Page 1 of 2		
		
DEKRA Testing and Certification (Shanghai) Ltd. 1F 4102 Langshang Road, 5th floor, 4th floor, 200408 Jing an District, Shanghai, China T +86 21 6056 7656 F +86 21 6056 7555 www.dekra-product-safety.com		

		ATTESTATION OF CONFORMITY
Issued to:	LISHUI YIYEN TECHNOLOGY CO., LTD (Lijng National Industrial Park) No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui City, Zhejiang Province, P.R. China	
For the product:	Rechargeable Li-Ion Battery Cluster	
Trade name:	YIY	
Type/Model:	LFP-S 76B20	
Ratings:	See model list	
Manufactured by:	LISHUI YIYEN TECHNOLOGY CO., LTD (Lijng National Industrial Park) No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui City, Zhejiang Province, P.R. China	
Requirements:	EN IEC 61000-6-2:2019 EN IEC 61000-6-4:2019	
This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6186327.50		
This Attestation implies that the examined types are in accordance with the standards designated under the Electromagnetic compatibility directive 2014/53/EU		
The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of its production with the specimen tested by DEKRA is not the responsibility of DEKRA.		
The CE marking may be affixed on the product if all relevant and effective EC directives are complied with.		
Amhem, 20 June 2024 Number: 6186327.51AOC		
DEKRA Testing and Certification (Shanghai) Ltd.  Kerry Lin Certification Manager © Integral publication of this attestation and adjoining reports is allowed Page 1 of 2		
		
DEKRA Testing and Certification (Shanghai) Ltd. 1F 4102 Langshang Road, 5th floor, 4th floor, 200408 Jing an District, Shanghai, China T +86 21 6056 7656 F +86 21 6056 7555 www.dekra-product-safety.com		

		ATTESTATION OF CONFORMITY
Issued to:	LISHUI YIYEN TECHNOLOGY CO., LTD (Lijng National Industrial Park) No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui City, Zhejiang Province, P.R. China	
For the product:	Smart String ESS	
Trade name:	YIY	
Type/Model:	BESS-60-80	
Ratings:	See model list	
Manufactured by:	LISHUI YIYEN TECHNOLOGY CO., LTD (Lijng National Industrial Park) No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui City, Zhejiang Province, P.R. China	
Requirements:	EN IEC 61000-6-2:2019 EN IEC 61000-6-4:2019	
This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6174214.50		
This Attestation implies that the examined types are in accordance with the standards designated under the Electromagnetic compatibility directive 2014/53/EU		
The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of its production with the specimen tested by DEKRA is not the responsibility of DEKRA.		
The CE marking may be affixed on the product if all relevant and effective EC directives are complied with.		
Amhem, 1 March 2024 Number: 6174214.51AOC		
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		ATTESTATION OF CONFORMITY
Issued to:	LISHUI YIYEN TECHNOLOGY CO., LTD (Lijng National Industrial Park) No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui City, Zhejiang Province, P.R. China	
For the product:	Power Conversion Module	
Trade name:	YIY	
Type/Model:	UP-M-62.5KW, UP-M-100KW	
Ratings:	See model list	
Manufactured by:	LISHUI YIYEN TECHNOLOGY CO., LTD (Lijng National Industrial Park) No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui City, Zhejiang Province, P.R. China	
Requirements:	EN IEC 61000-6-2:2019 EN IEC 61000-6-4:2019	
This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6174214.51		
This Attestation implies that the examined types are in accordance with the standards designated under the Electromagnetic compatibility directive 2014/53/EU		
The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of its production with the specimen tested by DEKRA is not the responsibility of DEKRA.		
The CE marking may be affixed on the product if all relevant and effective EC directives are complied with.		
Amhem, 1 March 2024 Number: 6174214.52AOC		
DEKRA Testing and Certification (Shanghai) Ltd.  Kerry Lin Certification Manager © Integral publication of this attestation and adjoining reports is allowed Page 1 of 2		
		
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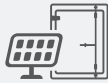
		ATTESTATION OF CONFORMITY
Issued to:	LISHUI YIYEN TECHNOLOGY CO., LTD (Lijng National Industrial Park) No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui City, Zhejiang Province, P.R. China	
For the product:	Power Conversion System	
Trade name:	YIY	
Type/Model:	UP-M-62.5KW, UP-M-100KW	
Ratings:	UP-M-62.5KW, DC: Voltage range: 650-950Vdc; Max Current: 100A, AC: Rated power: 62.5kW, rated voltage: 400Vac; Max Current: 100A, 50/60Hz, 3W+PE power factor: >0.99 (leading-lagging) UP-M-100KW, DC: Voltage range: 650-950Vdc; Max Current: 170A, AC: Rated power: 100kW, rated voltage: 400Vac; Max current: 167A, 50/60Hz, 3W+PE power factor: >0.99 (leading-lagging) General: IP20, class I protection, 2000m altitude, -20-50°C LISHUI YIYEN TECHNOLOGY CO., LTD No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui City, Zhejiang Province, P.R. China (Lijng National Industrial Park)	
Manufactured by:	LISHUI YIYEN TECHNOLOGY CO., LTD No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui City, Zhejiang Province, P.R. China (Lijng National Industrial Park)	
Requirements:	EN 62471-1:2014+A1:2017	
This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6174215.50		
This Attestation implies that the examined types are in accordance with the standards designated under the Low Voltage Directive (LVD) 2014/35/EU		
The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of its production with the specimen tested by DEKRA is not the responsibility of DEKRA.		
The CE marking may be affixed on the product if all relevant and effective EC directives are complied with.		
Amhem, 28 May 2024 Number: 6174215.51AOC		
DEKRA Testing and Certification (Shanghai) Ltd.  Kerry Lin Certification Manager © Integral publication of this attestation and adjoining reports is allowed Page 1 of 2		
		
DEKRA Testing and Certification (Shanghai) Ltd. 1F 4102 Langshang Road, 5th floor, 4th floor, 200408 Jing an District, Shanghai, China T +86 21 6056 7656 F +86 21 6056 7555 www.dekra-product-safety.com		

		CERTIFICATE OF CONFORMITY
Issued to:	LISHUI YIYEN TECHNOLOGY CO., LTD No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui City, Zhejiang Province, P.R. China (Lijng National Industrial Park)	
For the product:	Power Conversion System	
Trade name:	YIY	
Type/Model:	UP-M-62.5KW, UP-M-100KW	
Ratings:	Operating temperature range: -20°C to +50°C Protective class I Ingress protection rating: IP20 Power factor range (leading-lagging): >0.99 (leading-lagging) UP-M-62.5KW, DC: Voltage range: 650-950Vdc; Max Current: 100A, AC: Rated power: 62.5kW, rated voltage: 400Vac; Max current: 100A, 50/60Hz, 3W+PE UP-M-100KW, DC: Voltage range: 650-950Vdc; Max Current: 170A, AC: Rated power: 100kW, rated voltage: 400Vac; Max current: 167A, 50/60Hz, 3W+PE	
Manufactured by:	LISHUI YIYEN TECHNOLOGY CO., LTD No. 77 Xianglong Road, Nanningshan Street, Lianshi District, Lishui City, Zhejiang Province, P.R. China (Lijng National Industrial Park)	
Requirements:	EN 50494-1:2016 (Requirements for type A Derating Units) COMMISSION REGULATION (EU) 2016/691 (NC RIG)	
This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6174227.50		
The examination has been carried out on one single specimen of the product. The Attestation does not include an assessment of the manufacturer's production. Conformity of its production with the specimen tested by DEKRA is not the responsibility of DEKRA.		
This Test Certificate expires at the latest on: 31 May 2029 or expires upon withdrawal of one of the above mentioned standards.		
Shanghai, 31 May 2024 Number: 6174227.51COC		
DEKRA Testing and Certification (Shanghai) Ltd.  Cliff Lin Certification Manager © Integral publication of this certificate and adjoining reports is allowed Page 1 of 1		
		
DEKRA Testing and Certification (Shanghai) Ltd. No. 555, Langshang Road, Jing an District, Shanghai, 200408 People's Republic of China T +86 21 6056 7656 F +86 21 6056 7555 www.dekra-product-safety.com EN 62471-1:2014+A1:2017		

CONTENTS

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Battery Energy Storage Solution

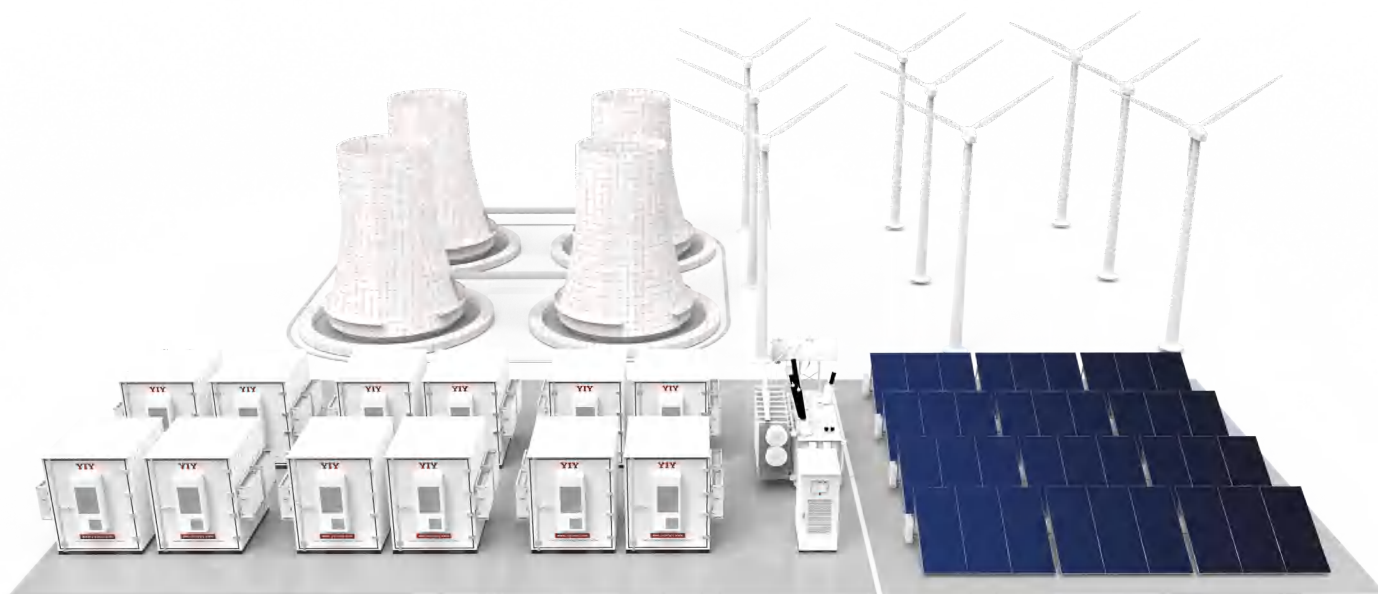


YIX

Energy storage system

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GENERATION-SIDE



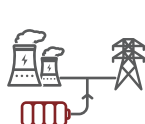
• Overview

Generation-side energy storage is the strategic cornerstone of power system transformation, fundamentally enhancing grid flexibility and reliability.

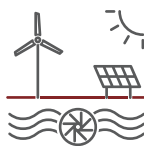
For thermal power plants, it serves as an "efficiency enhancer," providing millisecond-level frequency regulation that maintains optimal operations. This reduces fuel consumption, minimizes equipment wear, and creates new revenue through ancillary services—transforming thermal generation from a rigid power source into a "flexible market partner."

For renewable energy, storage acts as both a "stabilizer" and "value amplifier." It smoothes output fluctuations to meet grid standards and enables "energy time-shifting" by storing surplus renewable power for high-demand periods. By providing critical grid services such as voltage support and inertia, storage elevates renewables from "uncontrollable sources" into "grid-friendly primary power" that is both dispatchable and security-enhancing.

At the macro level, generation-side storage provides essential flexible capacity that optimizes system-wide investment while strengthening grid resilience under extreme conditions. It bridges the gap between conventional and renewable energy, accelerating the transition toward a cleaner, more reliable, and secure power future.



Load shifting



Renewable
energy integration

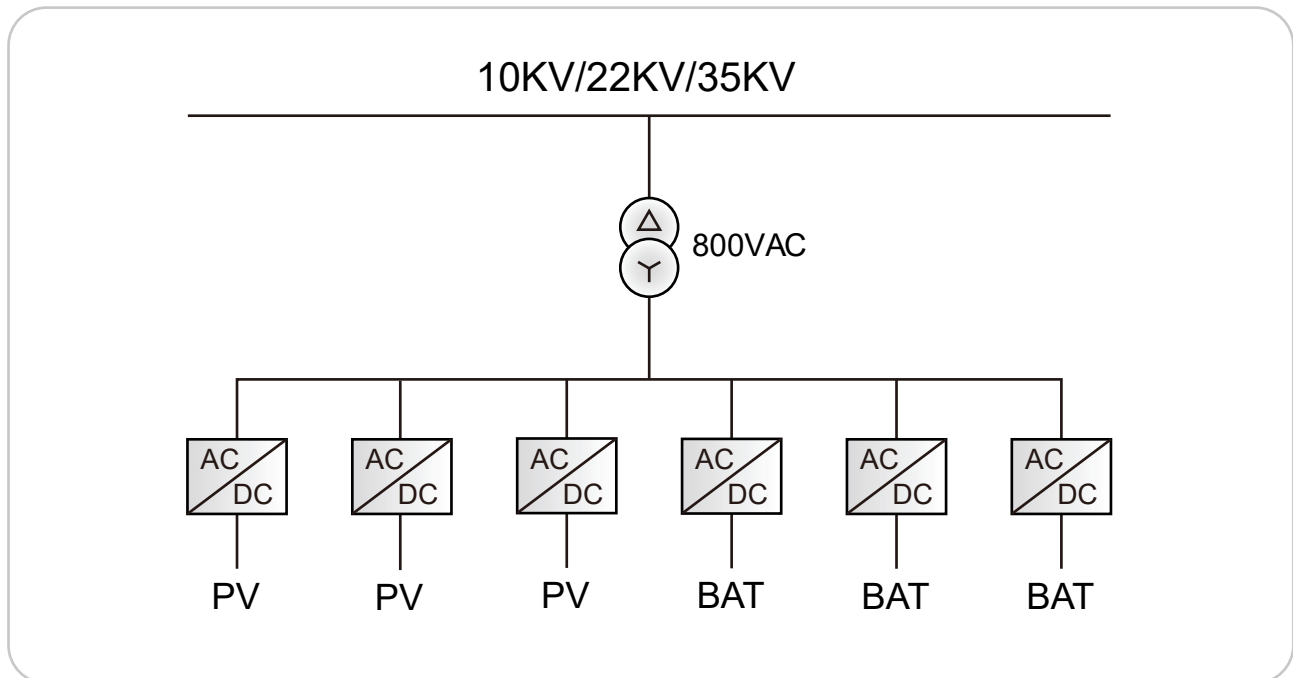


Capacity stability

50MW/100MWH SOLUTIONS

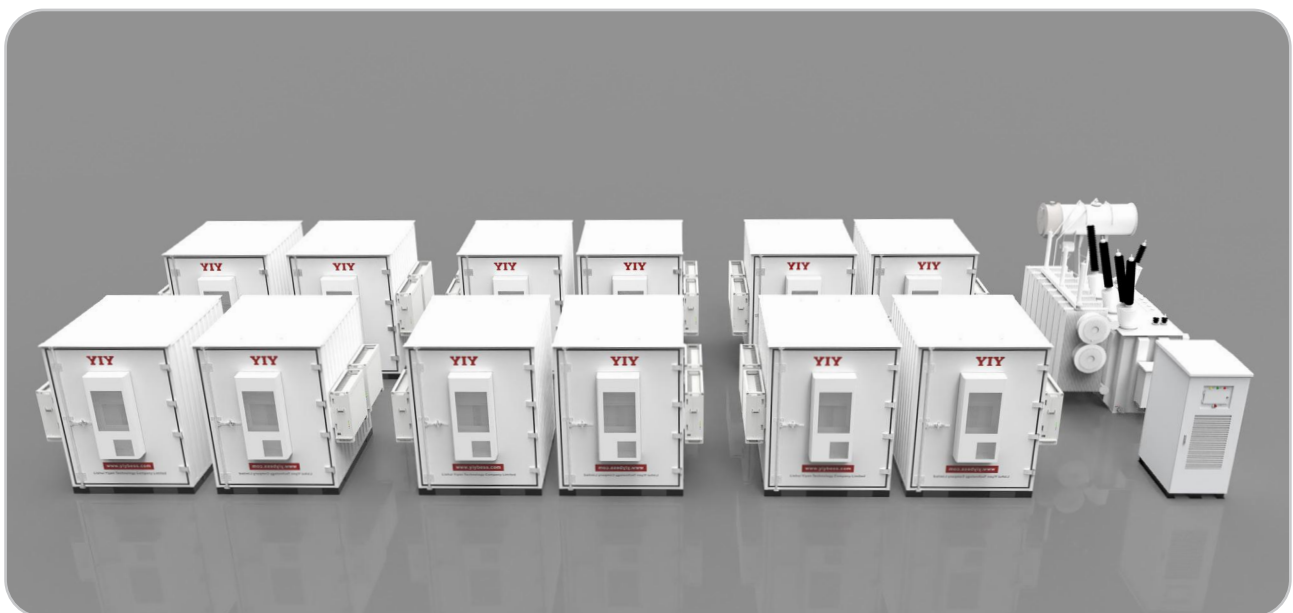
BESS-T 430KW/832KWH

• System Electrical Topology

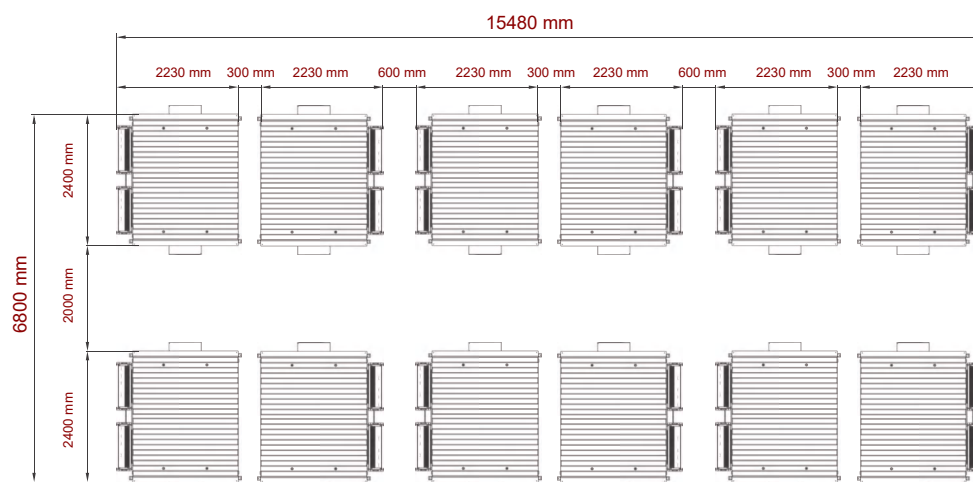


• Applications

5MW/10MWH



• Dimension Drawing



• Applications

50MW/100MWH



TRANSMISSION & DISTRIBUTION SIDE



• Overview

Transmission & distribution side Energy Storage System is a strategic infrastructure for building a new power system. Its core value lies in reshaping grid capabilities—from planning and operation to emergency response—in a flexible and precise manner.

First and foremost, it serves as an "all-around regulator" for grid operation. It not only achieves efficient peak shaving and valley filling, and provides high-quality frequency regulation with millisecond-level response, directly ensures the real-time balance and power quality of the grid. More importantly, energy storage acts as a "virtual transmission line" for optimizing grid investment. By shifting energy across time and space at critical congestion points, it effectively alleviates transmission and distribution bottlenecks, significantly delaying or replacing costly traditional grid upgrades, thereby enhancing the efficiency of existing assets. Ultimately, it functions as a "safety insurance" for grid resilience, serving as a black-start power source and emergency support for critical loads, greatly strengthening the grid's ability to cope with extreme failures and disasters.

In short, transmission & distribution end Energy Storage System is fundamentally upgrading the operational paradigm of the grid, transforming it from a rigid transmission network into a more flexible, economical, and reliable intelligent system.



Peak shaving



Black start capability

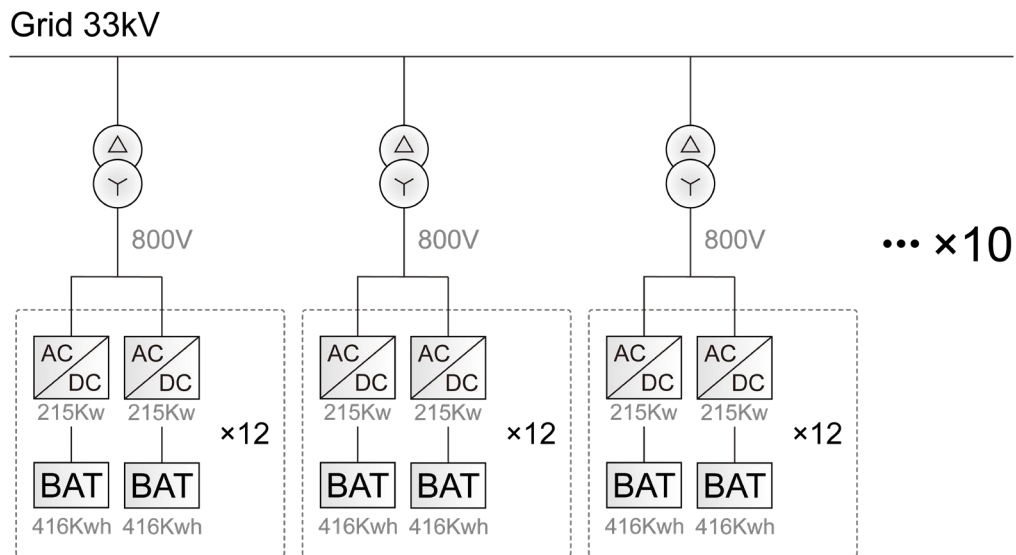


Ancillary services

50MW/100MWH SOLUTIONS

BESS-T 430KW/832KWH

• System Electrical Topology

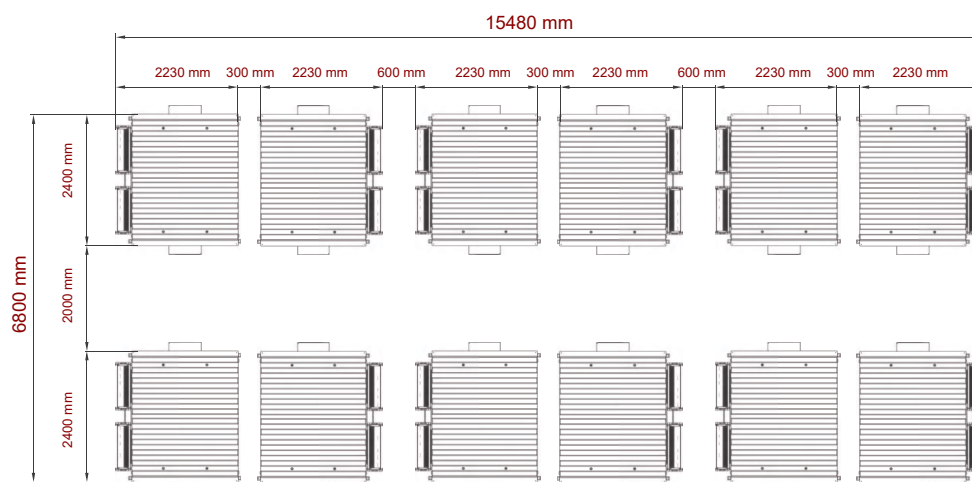


• Applications

5MW/10MWH

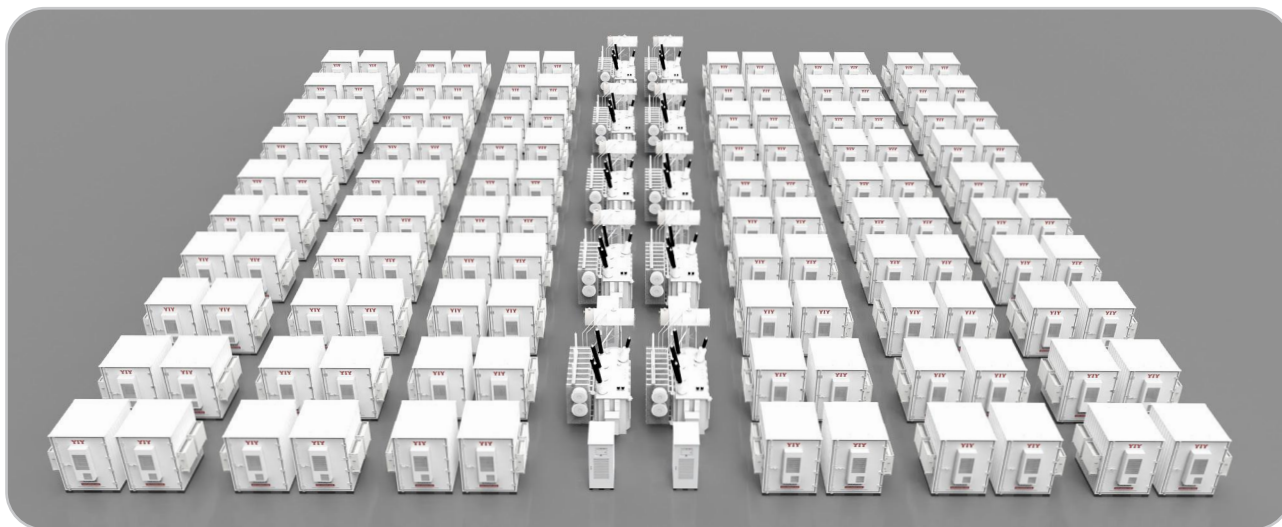


• Dimension Drawing



• Applications

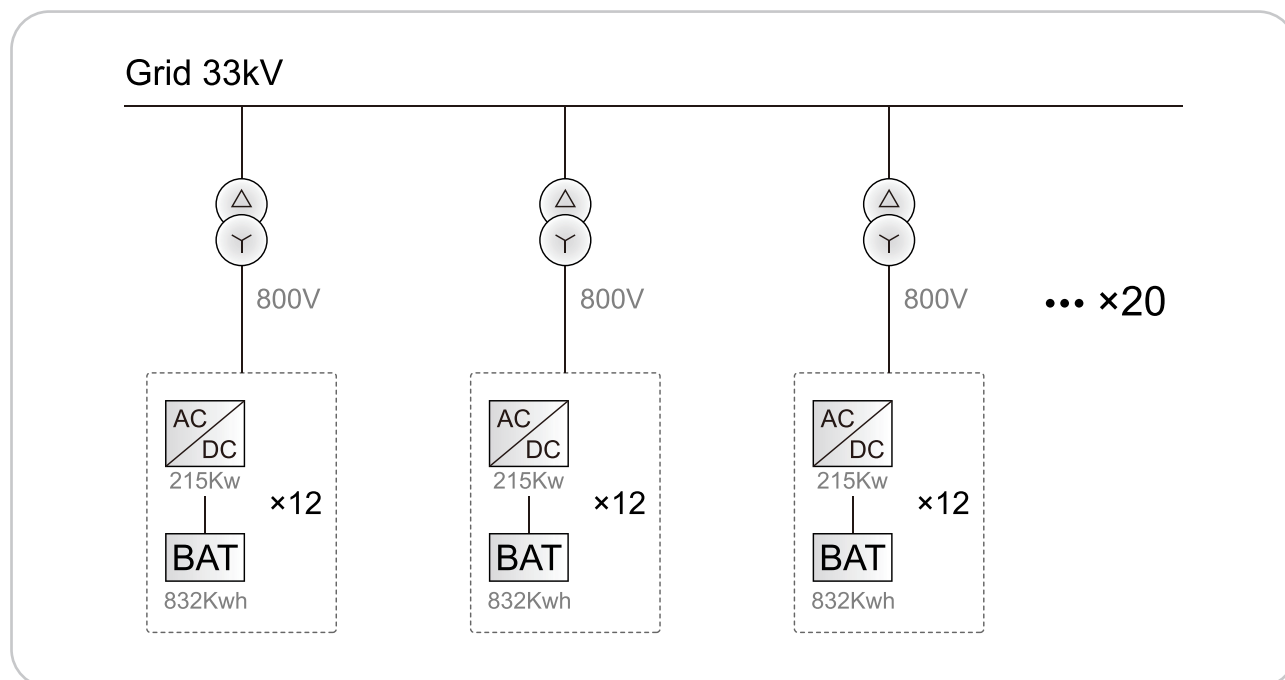
50MW/100MWH



50MW/200MWH SOLUTIONS

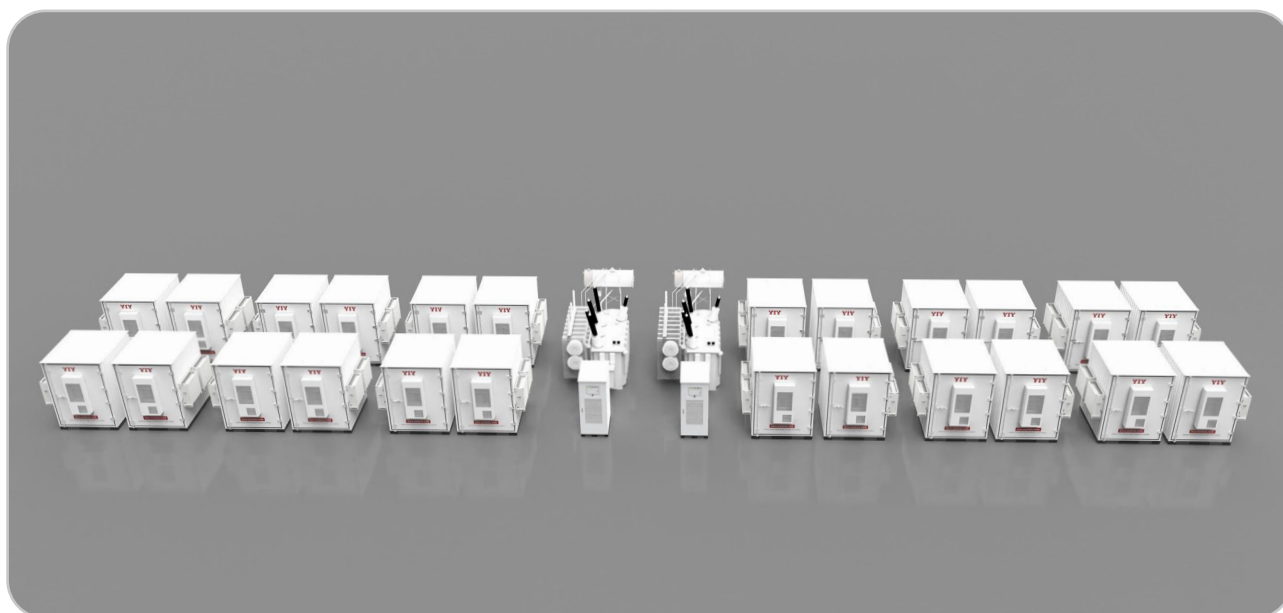
BESS-T 215KW/832KWH

• System Electrical Topology

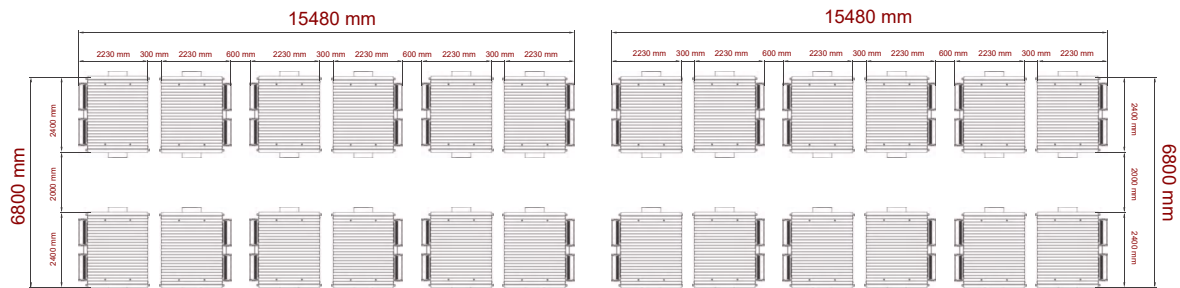


• Applications

5MW/20MWH

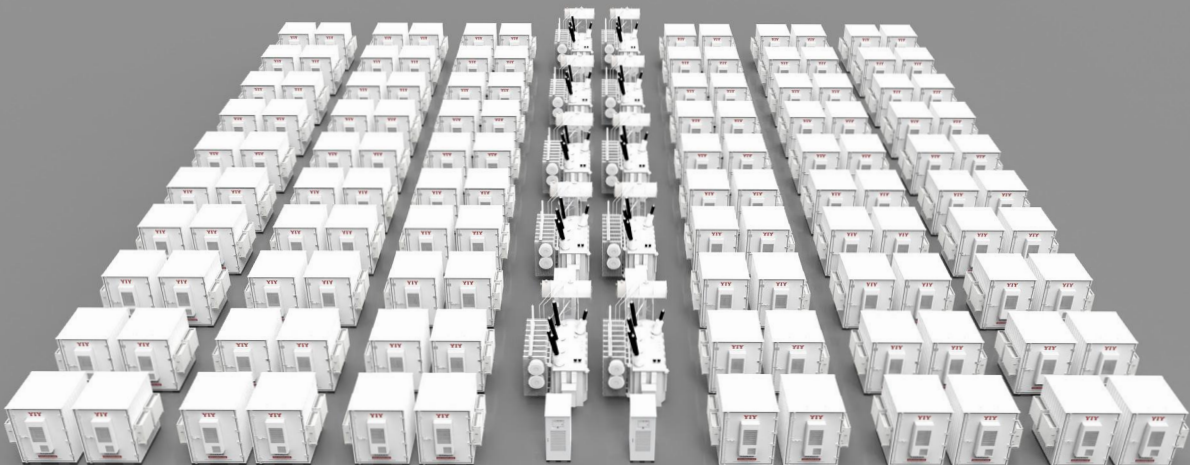


• Dimension Drawing



• Applications

50MW/200MWH



PCS

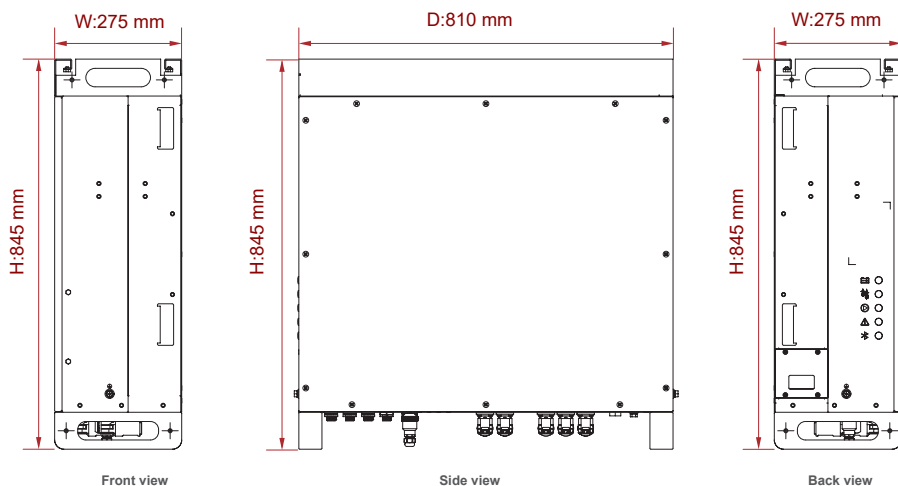
Three Phase Power Conversion System EPCS125/150/215/250-AM-HX



• Features

- Three-level topology, high conversion efficiency, and good power quality.
- Modular design, smooth expansion, and strong scalability (scalable to the MW level).
- Longer system lifespan and highly competitive cost per kilowatt-hour (LCOE).
- The device features derating design, good stability and long service life.
- Support high and low voltage crossing and actively adapt to weak power grids.
- Cluster-level battery management, cluster-level battery optimization.

• Product Dimensions



• Technical Parameter

EPCS125/150/215/250-AM-HX				
Model	EPCS125-AM-HX	EPCS150-AM-HX	EPCS215-AM-HX	EPCS250-AM-HX
Dc Side				
Full-load charging working voltage range	600V~1500V	725V~1500V	1000V~1500V	1150V~1500V
Full-load discharge operating voltage range	615V~1200V	730V~1500V	1060V~1500V	1200V~1500V
Maximum current	245A	245A	245A	245A
Maximum charge/discharge power	137.5kW	165kW	237kW	275kW
Communication Side				
Rated voltage	400V	480V	690V	800V
Rated voltage range	-15%~+10%			
Wiring method	Three-phase three-wire			
Rated power	125kW	150kW	215kW	250kW
Maximum power	137.5kW	165kW	237kW	275kW
Rated current	180A	180A	180A	180A
Maximum current	198A	198A	198A	198A
Frequency range	50Hz±5Hz/60Hz±5Hz			
Power factor	0.99/-1~1			
Current distortion rate	< 3% (@Rated power)			
Overload capacity	110% long-term			
Maximum efficiency	97.6%	97.8%	99%	99%
Protective Features				
Protective function	Ac overcurrent protection、AC overvoltage protection、AC short-circuit protection、DC surge protection Dc overcurrent protection、DC overvoltage protection、over-temperature protection, etc			
Conventional Parameters				
Dimension(W*D*H)	275*845*810mm			
Weight	108kg			
Altitude	4000m (derated when > 3000m)			
Working temperature	-30℃ to 60℃ (derating when above 50℃)			
Storage temperature	-40℃ ~70℃			
Humidity	0%RH to 100%RH, no condensation			
Cooling method	Intelligent air cooling			
Protection grade	IP66			
Communication method	CAN/RS485/ Ethernet/Bluetooth /4G			
Communication protocol	IEC61850、CAN2.0B、Modbus TCP/RTU			

BESS-T

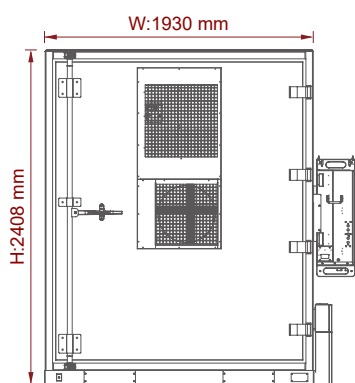
On-grid All-in-one Energy Storage System BESS-T 430-832



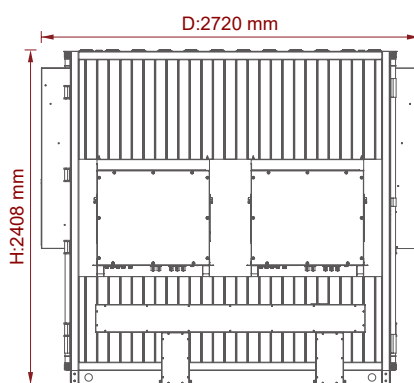
• Features

- Multi level BMS built-in.
- IP55 fire and explosion proof cabinet.
- Scalable in power and capacity.
- Easy for on site installation.
- Fire proof devices in each modular and in the cabinet.

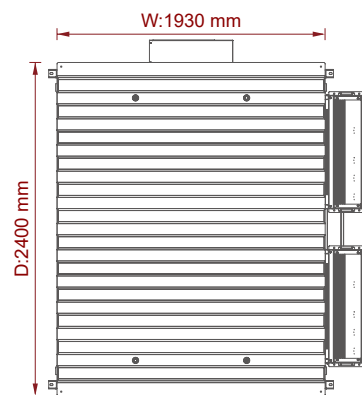
• Product Dimensions



Front view



Side view



Back view

• Technical Parameter

BESS-T 430-832					
Battery Parameters					
Battery Module	Voltage	57.6V			
	Capacity	314 Ah			
	Energy	18 kWh			
	Cooling method	Air cooling			
Battery Cluster	Rated voltage	1324.8Vdc			
	Grouping method	2P 414 S			
	Rated capacity	314 Ah			
	Output voltage range	1159.2VDC~1490.4VDC			
	Rated energy	832kWh			
	Max continuous charging current	190A*2			
	Max continuous discharge current	190A*2			
	Charge cut-off voltage	1449V			
	Discharge cut-off voltage	1242V			
Work Environment	Charging operation temperature range	0~45°C			
	Discharging operation temperature range	-20~50°C			
	Working humidity	RH≤80%			
Storage Environment	Storage temperature(<6month)	0~35°C			
	Short-term storage temperature(<1month)	-20~55°C			
	Storage humidity	RH≤80%			
Cabinet	Protection level	IP54			
PCS Parameters					
PCS Parameter	Rated current	180A			
	PCS overload capacity	110% long-term			
	PCS output power	125kW	150kW	215kW*2	250kW*2
	AC-side voltage of PCS	400V	480V	690V	800V
	Frequency	50Hz/60Hz			
	Power factor	-1~1			
	Battery side voltage	600V~1500V	725V~1500V	1000V~1500V	1150V~1500V
	Maximum efficiency	97.6%	97.8%	99%	99%
System Parameters					
System Parameters	Dimension(W*D*H)	1890*2000*2450mm			
	Weight	7500kg			
	Display	7-inch HMI			
	Fire protection systems	Aerosol Fire Module			
	Degree of protection	IP55			
	Certification	CE;IEC62619;UN38.3			
	Working temperaturerange	-30~60°C(> 45°C derating)			
	Cooling	Intelligent Thermal Management System			
	Relative humidity	5~95%(No Condensing)			
	Highest altitude	4000m(>2000m derating)			

CLIENT-SIDE

* Grid-connection * Islanding protection only * No PV

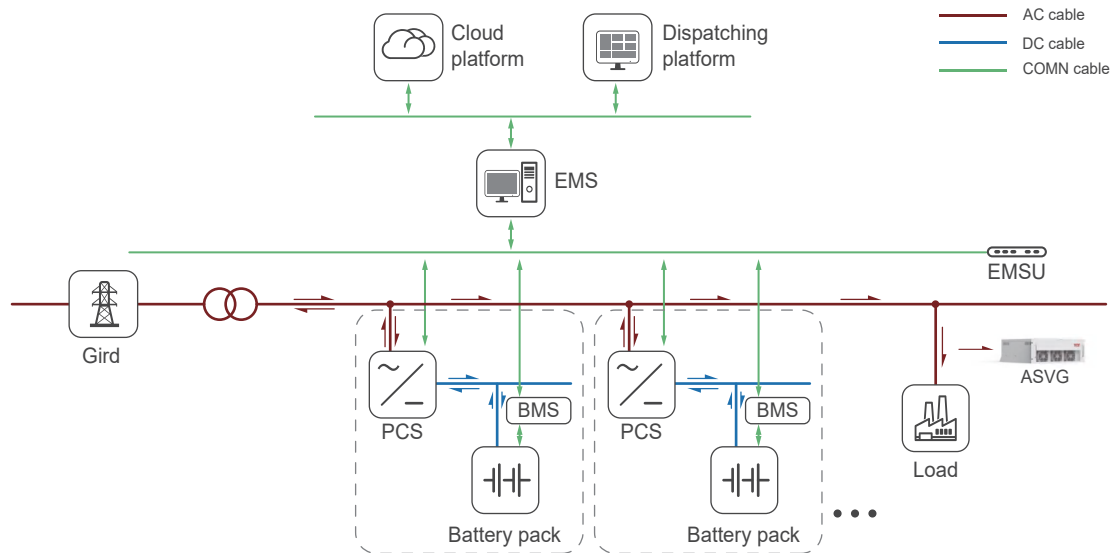


• Overview

Client-side energy storage systems are the core platform enabling users to transition from "energy consumers" to "energy prosumers." Their core value lies in generating threefold benefits: economic benefits, achieved by significantly reducing electricity costs through "peak shaving, valley filling" and demand management; market benefits, realized by participating in electricity trading and demand response through intelligent dispatch, converting flexible regulation capabilities into additional revenue; and system benefits, particularly through flexible adaptation to existing and new distributed photovoltaic systems via AC coupling, enabling efficient photovoltaic-storage synergy and intelligent management, thereby comprehensively enhancing energy reliability and autonomy.

This system transforms users from passive electricity consumers into active energy managers, truly achieving controllable electricity costs, reliable power supply security, and predictable energy revenue.

• System Topology

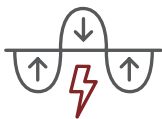


Applicable Equipment:

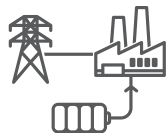


On-grid
All-in-one Energy Storage System

• Applications



Peak shaving



Power scheduling



Renewable
energy integration



Electricity trading

PCS

Industrial & Commercial Energy Storage Converter Sic PCS



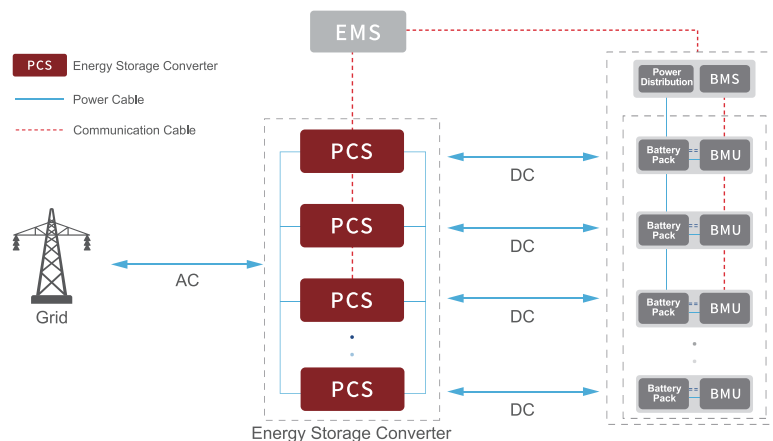
• Features

- High-efficiency bidirectional AC/DC conversion (up to 99.1%) with full potting and strong reliability.
- 100% three-phase unbalanced load capability and excellent grid adaptability.
- Compact 3U design with low standby loss and easy installation.
- Supports AC parallel expansion, hot-swap maintenance, and 3P3W/3P4W operation.
- Wide voltage range compatible with 280Ah–300+Ah battery cells.

• Product Introduction

The PCS energy storage converter is a bidirectional power module for AC-Dc power conversion that supports both grid-connected mode and off-grid mode. It can control the battery charging and discharging according to EMS instructions, perform intelligent mode switching, and adapt to large capacity cells such as 280Ah, 314Ah, and 320Ah. PCS has the functions such as overvoltage protection, overcurrent protection, overload protection, short circuit protection, over temperature protection, high/low voltage crossing, and island protection. When combined with STS, it can achieve seamless switching between grid connection and off-grid, which is suitable for peak shaving and valley filling in commercial and industrial parks, responding to demand, and building microgrids with wind and photovoltaic power generation equipment and diesel generators.

• System Topology



• Technical Parameter

PCS Energy Storage Converter		
Model	PCS950-125KCBMG	PCS950-105KCBMG
DC Parameters		
Rated Power	125KVA	105KVA
Voltage Range	600~950VDC(625~950VDC full-load operation)v	
Stabilized Voltage Predision	±1%±	
Stabilized Current Predision	±1%	
Maximum Current	210A	175A
AC On-grid Parameters		
Rated Power	125KVA	105KVA
Maximum Power	137.5KVA(continuous)	115.5KVA(continuous)
Wiring Mode	3P3W+PE/3P4W+PE	
Rated Voltage	400VAC	
Voltage Range	340~460VAC,340~400VAC linear derating	
Maximum Current	198.5A	167A
Voltage Frequency	50/60±5Hz	
Power Factor	[-1 , 1]	
THDi	≤3%	
Maximum Efficiency	≥99.1%	
AC Off-grid Parameters		
Rated Power	125KVA	105KVA
Maximum Power	137.5KVA(continuous)	115.5KVA(continuous)
Rated Voltage	400VAC	
Wiring Mode	3P3W+PE/3P4W+PE	
Rated Output Frequency	50/60Hz	
THDu	≤3%	
System Parameters		
Overload Capability	110% (long-term)	
Dimensions(W*D*H)	440mm*130mm*600mm (without hanging ears)	
Weight(kg)	≤40kg	
Level Of Protection	IP20	
Noise	≤75dB	
Working Temperature Range	-30°C~-+65°C (>50°C derating)	
Storage Temperature Range	-40°C~-+70°C	
Humidity Range	0~98% (no condensation)	
Heat-dissipating Method	Intelligent air cooling	
Altitude	4000m (>2000m derating)	
Safety Regulations & Standards	CE (IEC 62477-1)	
EMC Standards	CE (IEC 61000-6-2/4)	
Grid Connection Standards	European EN50549-1/-10;Germany VDE4105;UK G99	
Parameter Communication		
PC Terminal	Ethernet (Modbus-TCP);RS485(Modbus-RTU);CAN 2.0	
BMS	RS485;CAN 2.0B	

BESS-T

On-grid All-in-one Energy Storage System

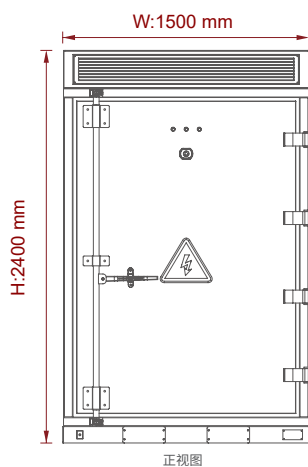
BESS-T 125-271



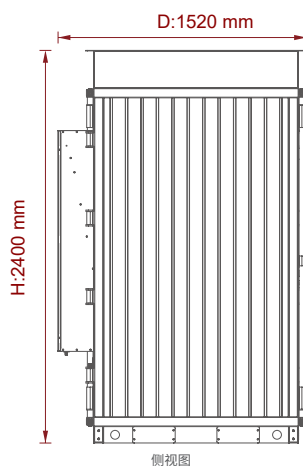
• Features

- Two level BMS built-in.
- Intelligent thermal management system
- IP55 fire and explosion proof cabinet.
- Fire proof devices in each modular and in the cabinet.
- Easy for on site installation

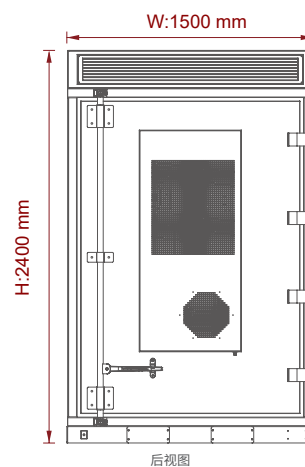
• Product Dimensions



正视图



侧视图



后视图

• Technical Parameter

BESS-T 125-271		
Battery Parameters		
Battery Module	Voltage	57.6V
	Capacity	314 Ah
	Energy	18 kWh
	Cooling method	Intelligent constant temperature system
Battery Cluster	Rated voltage	864V
	Grouping method	1P 270 S
	Rated capacity	314 Ah
	Output voltage range	756V~950V
	Rated energy	271kWh
	Max continuous charging current	157 A
	Max continuous discharge current	157 A
PCS Parameters		
PCS Parameter	Rated current	181A
	PCS overload capacity	x1.1 continuous;x1.25(30ms)
	PCS output power	125kW
	Maximum continuous output power	137.5kW
	Total THDi	≤3%
	Maximum efficiency	≥98.5%
	AC-side voltage of PCS	3P3W+PE/3P4W+PE, 400 V
	Frequency	50Hz/60Hz
	Power factor	-1~1
	Battery side voltage	600V-950 VA
System Parameters		
System Parameters	Dimension(W*D*H)	1500*1520*2400mm
	Weight(kg)	/
	Display	7-inch Resistive Touch Screen
	Fire protection systems	Aerosol Fire Module
	Degree of protection	IP55
	Certification	CE;IEC62619;UN38.3
	Working temperaturerange	-30~60°C(> 45°C derating)
	Cooling	Intelligent Thermal Management System
	Relative humidity	5~95%(No Condensing)
	Storage temperature(<6month)	0~35°C
	Short-term storage temperature(<1month)	-20~55°C
	Highest altitude	4000m(>2000m derating)

Demonstrations

• Photovoltaic Storage Integrated System

Load shifting Capacity Stability Self-Consumption

400KW 430KWH PV250KWp



• Energy Storage Power Station

Peak shaving Backup power

400KW 430KWH



• Photovoltaic Storage Integrated System

Load shifting Capacity Stability Self-Consumption

150KW 215KWH PV150KWp

Demonstrations

- **Generation-Side Energy Storage**

Load shifting Capacity Stability

Frequency regulation

500KW 1075KWH



- **Energy Storage Power Station**

Peak shaving Load balancing

Backup power

120KW 320KWH



- **Solar Energy BESS Charging Station**

Reducing peak demand

200KW 430KWH PV580KWp

- **Energy Storage Power Station**

Peak shaving Backup power

2800KW 6.02MWH



- **Energy Storage Power Station**

Backup power Load shifting

880KW 1.5MWH



Demonstrations

• Photovoltaic Storage Integrated System

Load shifting Capacity Stability Self-Consumption

250KW 430KWH PV250KWp



• Energy Storage Power Station

Peak shaving Backup power

60KW 80KWH



• Photovoltaic Storage Integrated System

Load shifting Capacity Stability Self-Consumption

60KW 80KWH + PV1000KWp



• Energy Storage Power Station

Load shifting Backup power

60KW 160KWH



• Energy Storage Power Station

Peak shaving Load balancing

Backup power

250KW 430KWH



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