HENGTONG ENERGY STORAGE

Jiangsu Hengtong Energy Storage Technology Co., Ltd.

Hengtong Group Co.,Ltd.
No 2288 Zhongshan North Road,Wujaing District, Suzhou City, Jiangsu Province

Jiangsu Hengtong Energy Storage Technology Co., Ltd.
No. 88, Hengtong Road, Wujiang District, Suzhou City, Jiangsu Province

+86 0512 63951158
www.jshtes.com
www.htgd.com.cn

2024/08

CREATE EXCELLENCE
ADVOCATE CIVILIZATION

HENGTONG GROUP

Hengtong Group is a high-tech international industrial group involved in optical fiber and optical networks, energy internet, intelligent IoT, new energy and new materials. Founded in 1991, the group is headquartered in Wujiang, Suzhou, a demonstration zone for the integrated development of the Yangtze River Delta. The group has more than 70 subsidiaries (including 5 listed companies at home and abroad), more than 20,000 employees (including more than 4,000 overseas), and a revenue of 25.3 billion USD. in 2023.

171 th
Chinese Enterprises 500

TOP 3
Global Submarine Cable Systems

50 th
Top 100 Private Enterprises in China

TOP 3
Global Marine Communications Systems

80 th
China's Top 500 Manufacturing Enterprises

TOP 3
Top 3 Global Optical Fiber Communication Companies

JIANGSU HENGTONG ENERGY STORAGE TECHNOLOGY CO., LTD.

Jiangsu Hengtong Energy Storage Technology Co., Ltd. (hereinafter referred to as "Hengtong Energy Storage"), established in 2019, is a subsidiary of China's Fortune Global 500 company, Hengtong Group Co., Ltd. (hereinafter referred to as "Hengtong Group"). It specializes in new energy businesses related to energy storage technology, system integration, photovoltaic energy storage integration, and microgrid solutions. Adhering to the core service philosophy of "enhancing energy efficiency, promoting clean energy, and reducing carbon emissions," Hengtong Energy Storage is deeply involved in the design, research and development, production, and manufacturing of energy storage products in multiple application scenarios such as power generation, grid-side, and user-side. They provide full-lifecycle management services covering engineering implementation to project operation, actively promoting the global transition to a low-carbon economy.

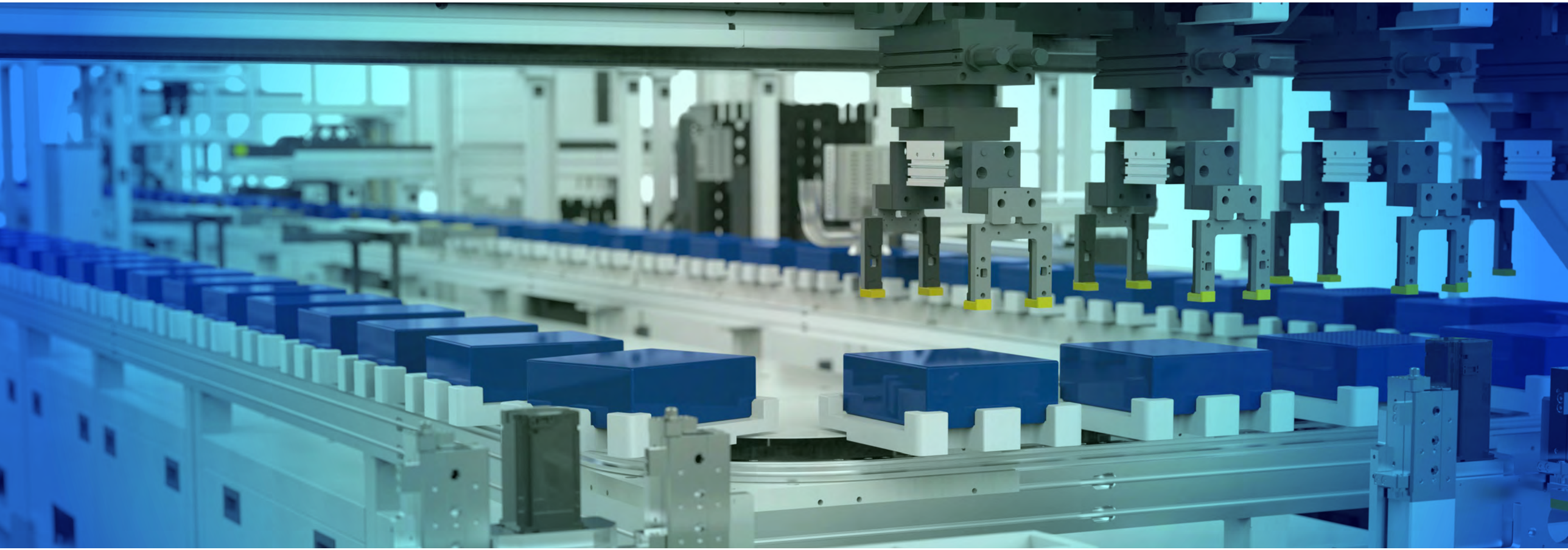
laboratory with first-class inspection and test equipments

Annual Single-shift Production of 2GWh

Qualifications and Honors

CORE COMPENTENCE OF THE COMPANY

R&D | Quality | Production | After-sales



Independent R&D Capabilities

1. With mature R&D and design capabilities for core energy storage components such as energy storage battery PACK, BMS, EMS, and PCS.

2. The core R&D team all come from leading companies in the industry and have rich experience in energy storage product design and development.

3. Owns multiple national patents, products have independent intellectual property rights, and have passed multiple standard certifications.

Complete Quality Inspection

1. Certified with quality management systems such as ISO14001, ISO45001, and ISO9001.

2. Products are certified with standards such as UN38.3, IEC62619/63050/63056/61000.

3. Fully automated production line, 11 CTQ key processes, 41 quality control points, effectively ensuring quality.

4. WMS, MES, ERP, full-process control of the entire material receiving, production, and shipping process.

Intelligent Manufacturing Factory

1. Equipped with advanced 5G fully automated battery module and PACK production lines.

2. Provide customers with all-round customized services based on precision processing and high-quality performance testing.

3. Possess standard and complete production and manufacturing specifications, full-process technical quality control, and high-standard control of energy storage battery production quality.

Professional After-sales Service

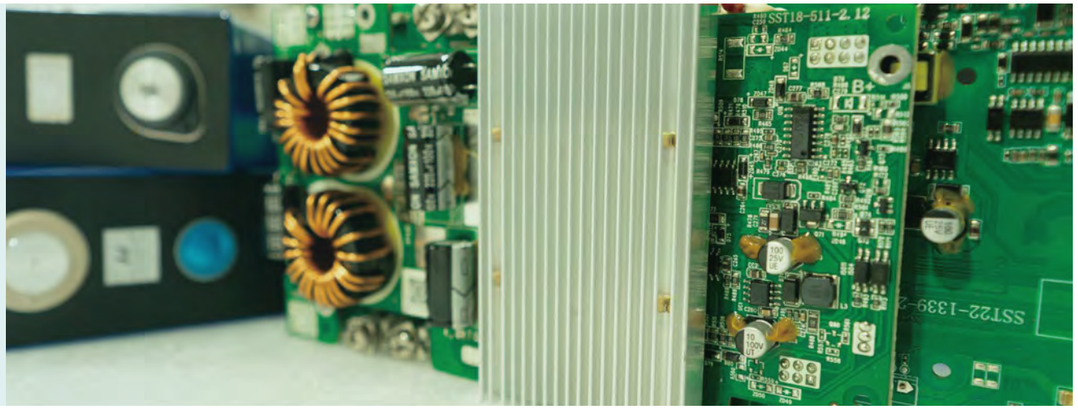
1. Business covers more than 150 countries and regions around the world, with over 40 global sales and after-sales service outlets, which can help customers achieve timely and reliable after-sales technical support and services anytime and anywhere.

2. With 12 overseas physical manufacturing bases, it can provide rapid spare parts response capabilities to solve customers' multiple after-sales concerns.

ENERGY STORAGE PRODUCT CORE ADVANTAGES

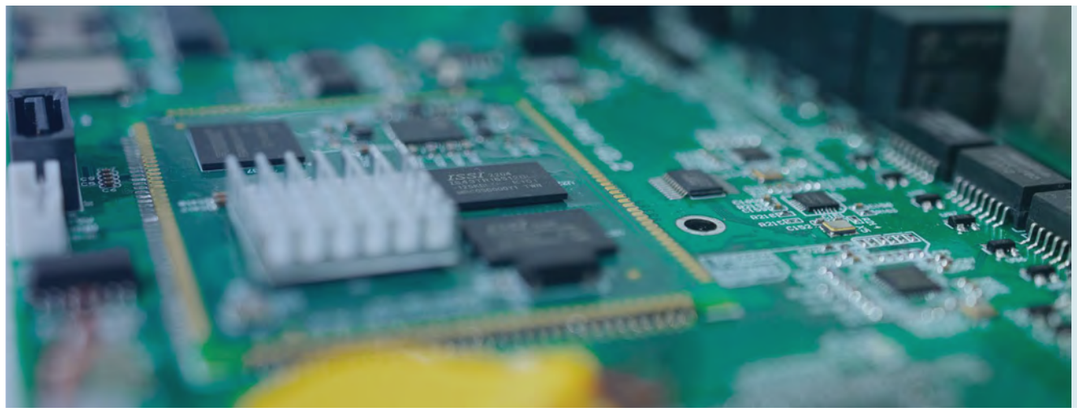
High Quality Battery

1. High safety - Lithium iron phosphate battery cells
2. High energy density - Store more energy under the same conditions
3. Long cycle life - Design life up to 15 years
4. High reliability - Top supplier in the industry



Safe And Stable BMS-battery Management System

1. High measurement accuracy - Voltage and current sampling error ≤±0.2%
2. Precise state estimation - SOC error ≤5%
3. Ultra-low power consumption - System power consumption ≤9W
4. High safety - Three-level safety protection, 1500V withstand voltage test



Efficient EMS

1. High reliability - Meets the requirements of rigorous MEC Level 4/5 tests
2. High speed - Adopts advanced cloud-edge collaborative high compression ratio technology to achieve high speed and low traffic
3. Full compatibility - Supports common communication protocols such as RS485, CAN, and IEC 61850/104.

Smart Cloud Platform

1. Cloud expansion - Self-developed source code, supports API, and realizes VPP virtual power plant
2. Multi-support - Compatible with new energy devices such as photovoltaic, energy storage, and charging piles
3. Intelligent monitoring - Realizes functions such as data collection, monitoring, statistics, and reporting for hundreds of thousands of devices.

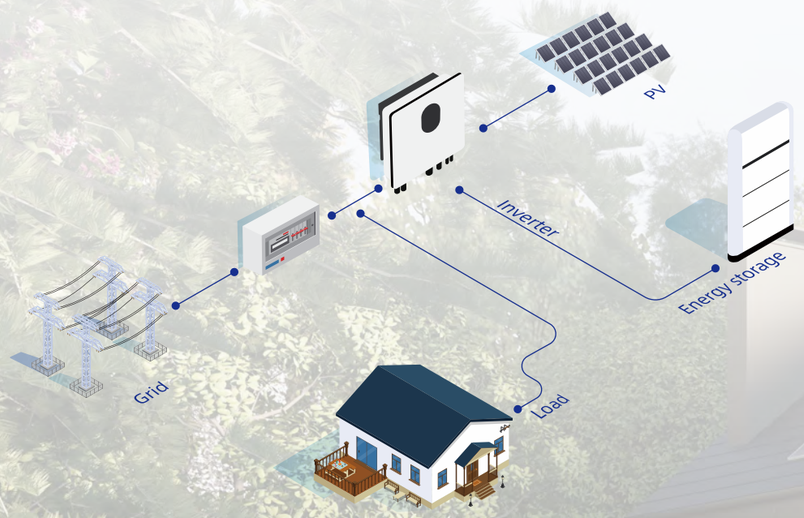
RESIDENTIAL ENERGY STORAGE SOLUTION

Photovoltaic（PV）energy consumption and self-sufficiency in photovoltaic energy

Peak-valley price spread arbitrage

On/off-grid microgrid

Backup power supply



Residential photovoltaic(PV) energy storage solutions are used in Europe, North Americas, Southeast Asia, South Africa, Australia,and other regions

HELIOS H7000

Residential Energy Storage System

High Voltage Version

Modular design, easy transportation
Parallel Multi-Cabinet, expand as needed

Built-in system protection, safer
Flexible installation, simpler maintenance

Ultra-thin new form factor
Ultra-high space utilization rate

- Quick-connect connector
- High-performance LFP battery
- Fixed bracket
- Convenient installation
- High resilience rubber cushioning pad
- Mature and reliable BMS
- Exquisite shell
- SOC Display

Category	HTESS-7.6K153C	HTESS-11.5K230C	HTESS-15.3K307C
Cell Type		LFP	
Standard Pack - String Union Number		24S1P	
Standard Pack - Rated Voltage		76.8V	
Standard Pack - Nominal Capacity		50Ah	
Standard Pack - Nominal Energy		3.84kWh	
Standard Pack - Weight		40±1kg	
Standard Bag - Size		718±2*365±2*152±2mm	
Standard Pack - Level Of Protection		IP54	
Number Of Standard Packs	2/pack	3/pack	4/pack
System Rated Voltage	153.6V	230.4V	307.2V
System Operating Voltage Range	134.4 ~172.8V	201.6~259.2V	268.8~345.6V
System Nominal Energy	7.68kWh	11.52kWh	15.36kWh
Rated Charge And Discharge Current		25A	
Maximum Charge And Discharge Current		30A	
Communication Method		CAN/RS485	
System Dimensions (L * H * D)	718±2*1125±2*152±2mm	718±2*1490±2*152±2mm	718±2*1855±2*152±2mm
System Weight	105±1	148±1	190±1
System Protection Level		IP54	
Cooling Method		Natural Cooling	
Operating Temperature		charge: 3℃ ~ 55℃/discharge: -20℃ ~ 55℃	
Relative Humidity Range		5~95%	
Installation Method		Landing	
Maximum Working Altitude		2000m	

Color Selection: Pearl white (standard optional) · Zephyr grey (additional price matching) · Time's green (additional price matching) · Ink blue orchid (additional price matching)

Category	Parameters		
Product Model	HTESS-10K 51.2B	HTESS-15K 51.2B	HTESS-20K 51.2B
Rated Voltage	51.2V		
Voltage Range	44.8V-57.6V		
Rated Capacity	200Ah @0.2C,25℃	300Ah @0.2C,25℃	400Ah @0.2C,25℃
Rated Energy	10.24kWh @0.2C,25℃	15.36kWh @0.2C,25℃	20.48kWh @0.2C,25℃
Charge/discharge Current	STANDARD 20A @25℃, MAX100A @25℃（SINGLE BATTERY PACK）		
Communication Method	CAN/RS485		
Protection Function	Over-voltage & under-voltage protection / over-current protection / short-circuit protection / over-temperature / under-temperature protection, etc.		
Protection Level	IP54		
Cooling Method	Nature Cooling		
Cycle Life	≥6000 Cycles, 80%DoD,@25℃		
Size (W*H*D)	700±2*1125±2*152±2mm	700±2*1490±2*152±2mm	700±2*1855±2*152±2mm
Weight	105±1 kg	150±1 kg	195±1 kg
Operating Temperature	charge: 3~ 55℃, discharge: -20~55℃		
Altitude	0~2000m		

- Quick-connect connector
- High-performance LFP battery
- Fixed bracket
- Convenient installation
- High resilience rubber cushioning pad
- Mature and reliable BMS
- Exquisite shell
- SOC Display

HELIOS H5000

Residential Energy Storage System

Low Voltage Version

Stackable design, flexible configurations

10kWh

15kWh

20kWh

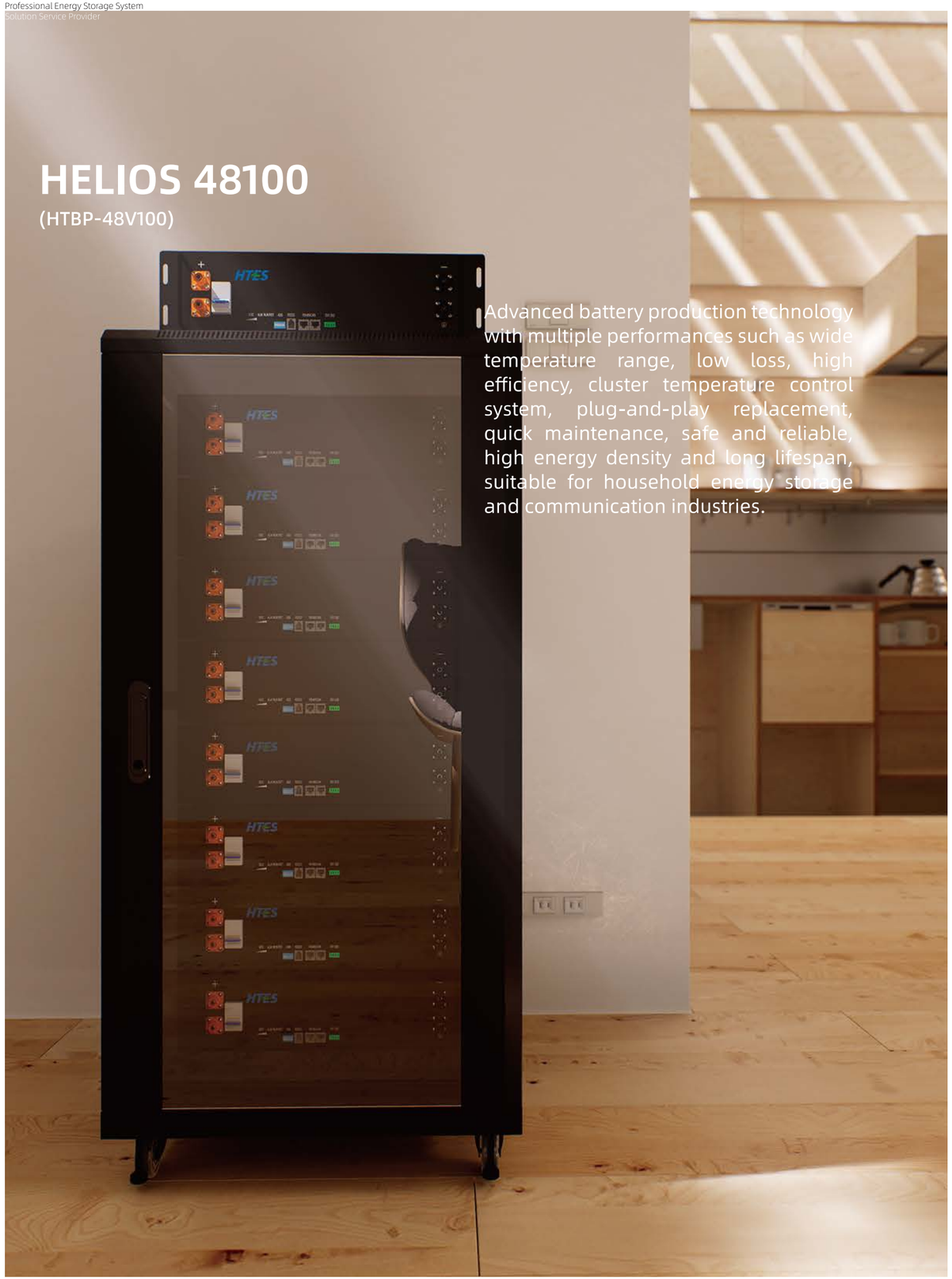
Modular design, easy transportation
Parallel Multi-Cabinet, expand as needed

Built-in system protection, safer
Flexible installation, simpler maintenance

Ultra-thin new form factor
Ultra-high space utilization rate

HELIOS 48100

(HTBP-48V100)



Advanced battery production technology with multiple performances such as wide temperature range, low loss, high efficiency, cluster temperature control system, plug-and-play replacement, quick maintenance, safe and reliable, high energy density and long lifespan, suitable for household energy storage and communication industries.

- 3U standard chassis
  High compatibility.
- Real-time monitoring of battery cells/voltage, and temperature.
- Advanced battery management system
  Safe and reliable.
- Accurate SOC algorithm with automatic calibration.
- Maximum parallel connection of 15
- Uniform function of battery cells extending battery life.

ITEMS	SPECIFICATION	REMARK
Battery Type	LFP	
Nominal Capacity	100.0 Ah	
Nominal Voltage	51.2 V	
Nominal Energy ①	5.12kWh	
Rated Charge Voltage	56.8 V	
Max. Continuous Charge Current	50 A（1C）	
Discharge Cut-off Voltage	42 V	
Max. Continuous Discharge Current	50 A（1C）	
Allowed OperationTemperature Range	charging: 3-55℃ discharging: -20~55℃	Recommended temperaturerange: 15℃ ~35 ℃
Weight	Approx. 41 kg	
Cycle life ②	6000 cycles	15 years design life ③
Relative Humidity	<95% RH	
Safety	IEC 62619;ENIEC 61000-6-1/2/3/4	

Note: ① Test conditions: Based on the date of manufacture and batch, at 100% depth of discharge (DoD), +25°C, charge and discharge at a rate of 0.2C.
② Based on the test date and batch, the data is measured at +25°C with a depth of discharge (DoD) of 70%, a charge-discharge rate of 0.2C, and an EOL ⩾ 70%.
③ At +25°C with 70% depth of discharge (DoD), 0.2C charge and discharge rate, it can meet the conditions of one charge and one discharge per day.

Intelligent protection

Long service life

Easy operation and maintenance

High-temperature resistant

Easy installation

HELIOS HS6K

Residential Single-Phase Hybrid Inverter

Hengtong Energy Storage's photo-voltaic energy storage integrated inverter is specially designed for residential and small commercial applications. It is compact, highly efficient, equipped with various protection functions, safe, reliable, intelligent, stable, and has a high protection level (IP65), with strong adaptability.

Sic Technology
98% Efficiency

Max.Input Current 18A
1.8 Times PV Array Input

IP65 Protection

6 Units Parallel

<10ms On/off-grid
Switchover

Natural Cooling
(Noise<25dB)

3-6kW

- Residential Smart Energy Management Terminal.
- Two charging modes available: photovoltaic and grid power.
- Millisecond-level switching between grid-connected and off-grid modes, supporting seamless and uninterrupted intelligent switching.
- Plug-and-play design, easy installation.
- Protection level up to IP65, wall-mounted design, space-saving.
- Cloud + intelligent data analysis, automatic sleep, UPS function for critical loads.

	Model Name	HT-HBI-S3SH V1	HT-HBI-S3.6SH V1	HT-HBI-S4SH V1	HT-HBI-S4.6SH V1	HT-HBI-S5SH V1	HT-HBI-S6SH V1
Off-grid Output	Nominal Output Power	3000W	3600W	4000W	4600W	5000W	6000W
	Nominal Voltage	220V/230V/240V					
	Nominal Frequency	50/60Hz					
	Nominal Output Current	13.6A	16.4A	18.2A	20.8A	22.7A	27.2A
	Output THDu	<2%					
On-grid Parameter	Nominal Output Power	3000W	3600W	4000W	4600W	5000W	6000W
	Max. Output Current	13.6A	16.4A	18.2A	20.8A	22.7A	27.2A
	Nominal Grid Voltage	220V/230V/240V					
	Max. lutput Current from Grid	13.6A	22.7A			27.2A	
	Grid Voltage Range	184-264V					
	Frequency Range	45-65Hz					
PV Input	Max.Input Power	6000Wp	7200Wp		8000Wp		9000Wp
	Starting Voltage	95V					
	Max.Input Voltage	600V					
	MPPT Voltage Range	80-550V					
	Full Load MPPT Voltage Range	350-500V					
	Number of MPPT	2					
	Max.Input String Per MPPT	1					
	Nominal Input Voltage	360V					
	Max.Input Current	18A/18A					
Efficiency	Max. Efficiency	97.5%		97.8%		98.0%	
	European Efficiency	97.2%		97.3%		97.5%	
	Max. Battery Charging/Discharging Efficiency	95.2%					
General Data	Size(W*H*D)	500mm*470mm*180mm					
	Weight	21kg					
	Noise	<25dB(A)					
	Operating Temperature Range	-25°C~+60°C					
	Cooling Method	Natural cooling					
	Ingress Protection Grade	IP65					
	Mornitoring	APP/LED/WIFI/4G/Bluetooth					
	Communication Port	RS485/CAN/DRED/Dry contact/Parallel port					
	Protection	DC Switch:PV Insulation Resistance Detection;residual current monitoring;Anti-islanding protection;AC Short circuit protection;AC Overvoltage and overload protection;AC Overvoltage protection:LEVEL III; PV&Battery:LEVEL II;Surge protection;Lightning protection;Reverse polarity protection(PV&Battery)					
Certification	CE_LVD	IEC 62109-1,IEC 62109-2,EN 62109-1, EN 62109-2					
	CE_EMC	EN61000-6-1,EN61000-6-2,EN61000-6-3,EN61000-6-4, EN 62920					
	Grid	VDE-AR-N 4105,C10-11,G98/G99, CEI 0-21,EN50549,NRS 097-2-1,R25,UNE 217001 UNE 217002,NTS 2.1,PEA,MEA,NC RfG					

HELIOS HT20K

Residential Three-Phase Hybrid Inverter

Hengtong Energy Storage's photovoltaic energy storage integrated inverter is specially designed for residential and small commercial applications. It is compact, highly efficient, equipped with various protection functions, safe, reliable, intelligent, stable, and has a high protection level (IP65), with strong adaptability.

Sic Technology
98.2% Efficiency

1.5 Times DC/AC Ratio

Supports 130-200%
Instant Overload(60s)

Support Altitude
5000m(>3000m Derating)

Support Ac Couple

2 Independent Battery
Ports for Mixture Use
of Old & New Battery

Max. Grid Current
Ratio 1:1.8

15 Units Parallel

support 100% Three
Phase Unbalance

10-20kW

- Residential Smart Energy Management Terminal.
- Two charging modes available: photovoltaic and grid power.
- Millisecond-level switching between grid-connected and off-grid modes, supporting seamless and uninterrupted intelligent switching.
- Plug-and-play design, easy installation.
- Protection level up to IP65, wall-mounted design, space-saving.
- Cloud + intelligent data analysis, automatic sleep, UPS function for critical loads.

	Model Name	HT-HBI-T10SH V1	HT-HBI-T12SH V1	HT-HBI-T15SH V1	HT-HBI-T18SH V1	HT-HBI-T20SH V1
Off-grid Output	Nominal Output Power	10kW	12kW	15kW	18kW	20kW
	Nominal Voltage	3/N/PE.220/380Vac.230/400Vac				
	Nominal Frequency	50/60Hz				
	Nominal Output Current	15A	18A	22.5A	27A	30A
	Output THDu	<3%				
On-grid Parameter	Nominal Output Power	10kW	12kW	15kW	12kW	20kW
	Max .Output Power	11kVA	13.2kVA	16.5kVA	19.8kVA	22kVA
	Max. Output Current from Grid	29A	35A	44A	52A	60A
	Max. Output Current	16A	20A	24A	29A	32A
	Grid Voltage Range	184-276V/320-480V				
	Nominal Grid Voltage	3/N/PE.220/380.230/400V.240/415V				
PV Input	Max.Input Power	20000Wp	24000Wp	30000Wp	30000Wp	30000Wp
	Starting Voltage	200V				
	Max.Input Voltage	1000V				
	MPPT Voltage Range	180-960V				
	Full Load MPPT Voltage Range	250-850V	290-850V	350-850V	410-850V	450-850V
	Number of MPPT	2				
	Max.Input String Per MPPT	2				
	Nominal Input Voltage	600V				
	Max.Input Current	25A/25A				
Efficiency	Max. Efficiency	98.2%				
	European Efficiency	97.7%				
	Max. Battery Charging/Discharging Efficiency	97.8%				
General Data	Size(W*H*D)	573mm*509mm*219mm				
	Weight	35kg				
	Noise	<45dB(A)				
	Operating Temperature Range	-25°C~+60°C				
	Cooling Method	Air cooling				
	Ingress Protection Grade	IP65				
	Mornitoring	APP/LED/WIFI/4G/Bluetooth				
	Communication Port	RS485/CAN/DRED/Dry contact/Parallel port				
	Protection	DC Switch, AC Overvoltage Protection, AC Overcurrent Protection,AC Short Circuit Protection, Anti-islanding Protection, Residual Current Monitoring, PV Insulation Resistance Detection, Surge Protection:LEVEL II Reverse Polarity Protection(PV&Battery);Lightning Protection				
Certification	CE_LVD	IEC 62109-1,IEC 62109-2,EN 62109-1, EN 62109-2				
	CE_EMC	EN61000-6-1,EN61000-6-2,EN61000-6-3,EN61000-6-4， EN 62920				
	Grid	VDE-AR-N 4105,C10-11,G98/G99,CEI 0-21,AS 4777.2,R25,UNE217001.UNE217002, NTS 2.1 AS4777.2:2020+Amd 1:2021,PEA, MEA,IEC 61727,IEC 62116, NC RfG,EN50549NRS 097-2-1				

MOKE 48100

Backup Power For Base Stations

Intelligent protection

Excellent high-temperature performance

Anti-theft feature

Easy to maintain and manage

Long Service Life

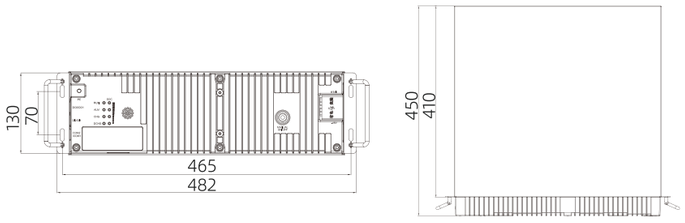
High-rate discharge

Model	HTES-48100-VTA1	Allowed Operating Temperature Range	0~60℃(Charge) -20~60℃(Discharge)
Cell Type	LFP	Max. Continous Charge Current	100A@25℃
Nominal Energy	4.8kWh	Max. Continous Discharge Current	100A@25℃
Nominal Capacity	100Ah	Recommended Charge Current	20A@25℃
Nominal Voltage	48V	Nominal Charge Voltage	54V
Operating Voltage Range	40.5V-54V	IP	IP20
Dimensions(W*H*D)	445*133.5*450mm	Expansion	Max. 64 units in parallel
Weight	41kg	Communication	RS485 CAN/SNMP(Optional)
Discharge Cut-off Voltage	40.5V	Cycle Life	3500@80% DoD, 25℃
Allowed Humidity Range	<=95% RH	Certification	UN38.3, UL1973, IEC 62619, IEC 62620， CE-EMC

Backup Power For Base Stations

- 3U standard chassis High compatibility
- Real-time monitoring of battery cells/ voltage, and temperature
- Advanced Battery management system Safe and reliable
- Accurate SOC algorithm with automatic calibration
- Maximum Parallel connection of 64
- Uniform function of battery cells Extending battery life

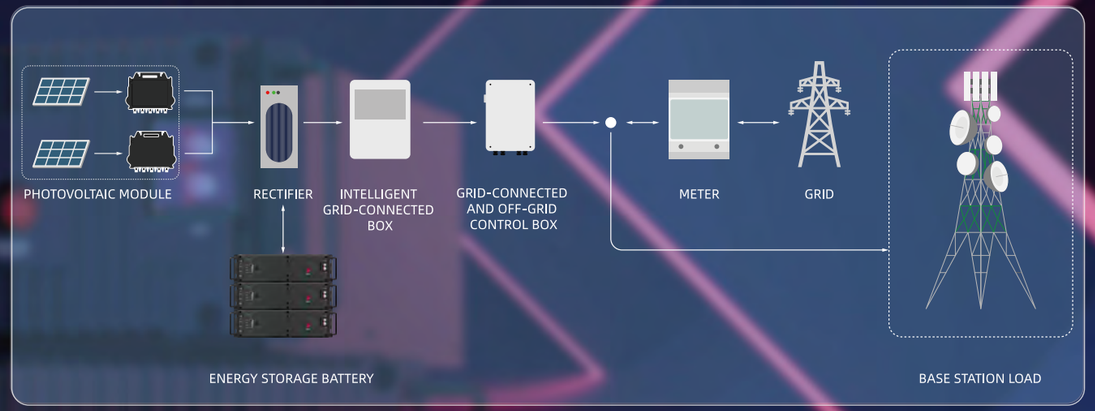
SPECIFICATION

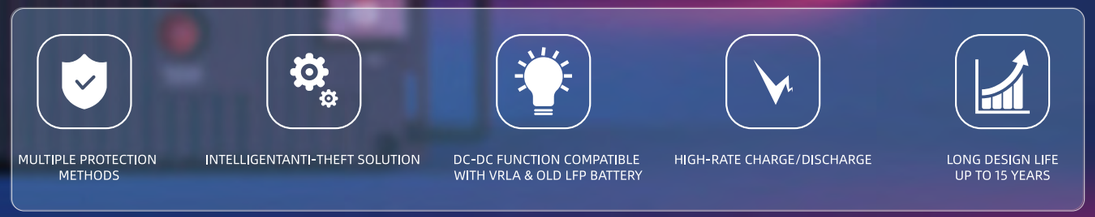
Models	MOKE48100-CT
Schematic Diagram	
Nominal Capacity	100Ah
Nominal Voltage	48V
Maximum Charge/Discharge Current	100A
Rated Charge/Discharge Current	150A@25℃
Maximum Charge/Discharge Power	4800W@25℃
Cycle Life	3500@0.5C 80%DoD @ 25℃
Weight	43kg
Operating Voltage Range	40.5V-54V
Discharge Cut-off Voltage	54.0V
Nominal charge Voltage	40.5V
Operating Temp. Range/Charge	0℃-60℃
Operating Temp. Range/Discharge	-20℃-60℃
Storage Temperature	0℃-45℃
Communication	RS485, CAN; 2Dry Contact
Function	Peak Shaving/Mix Up With Lead-acid/Normal Lithium Battery
Allowed Humidity Range	5%-95%
Atmospheric Pressure	70kPa-106kPa
IP	IP20
Altitude	<2000m
Protections	Overcharge/Overdischarge/Overtemperature/Overcurrent/Short Circuit etc.
Design Standard	UN38.3, CE-EMC, IEC62619

MOKE 48100-CT

TELECOM BACKUP LFP BATTERY SOLUTION

Adopting intelligent lithium battery control strategy, it is mainly used for 48V communication backup power supply scenarios. It has the characteristics of maintenance-free, high specific energy and long cycle life.





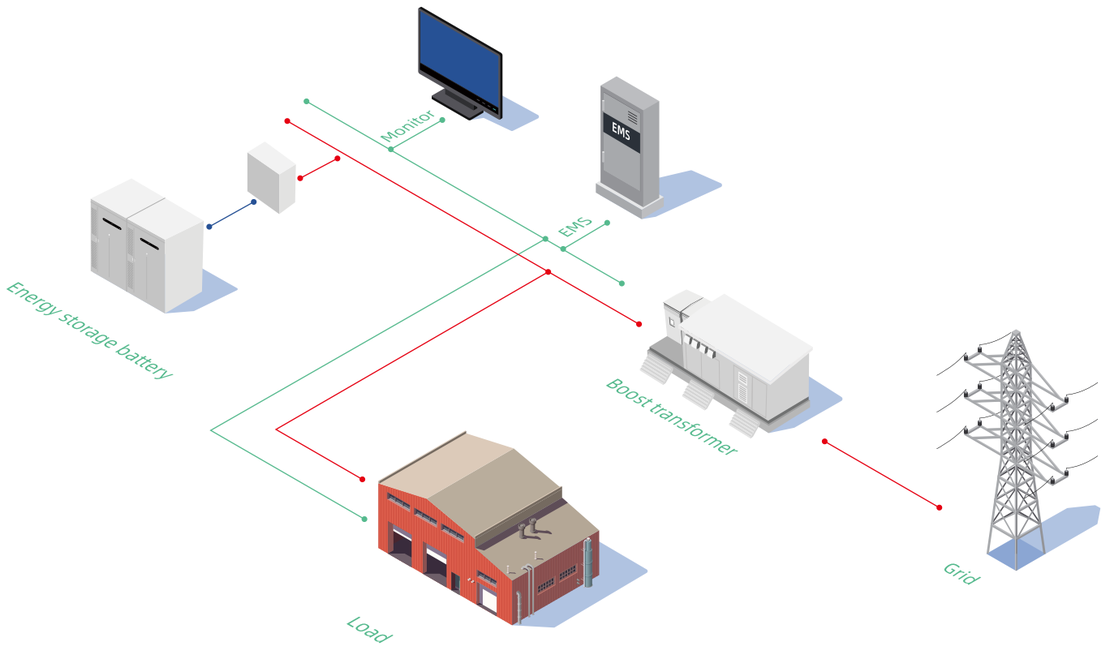
COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SOLUTION

Commercial And Industrial Energy Storage Applications

- **Photovoltaic Self-Consumption and Grid Integration**
  Photovoltaic generation prioritizes supplying loads, followed by charging the battery, and any excess electricity can be fed into the grid.
  When the photovoltaic generation is low, prioritize discharging the battery for supplementation.

- **Critical Load Backup Power Assurance**
  The battery is kept fully charged. During a power outage, it is used as an emergency power supply to ensure power supply for important loads and manage demand charges. When there is a grid, the battery discharges to reduce the peak when the purchased power exceeds the set value. During a power outage, the battery discharges to the load for consumption.

- **Peak-Valley Price Arbitrage**
  In regions with peak-valley electricity pricing, the energy storage system charges during off-peak hours and discharges during peak hours to capitalize on the peak-valley price difference.



Expandable through the combination of multiple cabinets, Wide Capacity Design Range, Easy and Convenient On-Site Assembly.

Independent control for each cluster and channel, discharge depth exceeding 90%.

Liquid cooling constant temperature control can control the temperature difference of the battery cells within 3℃, effectively ensuring the safety and high-performance operation of the system.

Well-rounded application features, suitable for various scenarios such as industrial parks, microgrids, commercial complexes, etc.

HELIOS B233/372

Outdoor Liquid-Cooling Energy Storage System

Product Features

Ultimate safety

Outdoor cabinet IP55,PACK IP67

Seamless switching redundant power supply

Comprehensive protection real-Time monitoring

Three-phase four-wire, no isolation transformer required

Multi-unit parallel connection and coordinated control

	Category	HTAES2-L100K233V1	HTAES1-L372
System Parameters	Cell Type	LFP3.2V/280Ah	
	System Rated Energy	233kWh	372kWh
	Battery Voltage Range	DC 728V~936V	DC 1164.8V~1497.6V
	Ac-side Rated Power	100kW	/
	Discharge Depth	90%DOD	
	System Efficiency	≥88%	
	Communication Interfaces	CAN/RS485	
	Protection Level	IP55	
	Noise	<75dB	
	Thermal Management Technology	Liquid cooling（Temperature difference≤3℃）	
	System Combination	233*N（1≤N≤5）	372*N（1≤N≤N）
	Dimensions(L * D * H)	1345×1396×2350 mm	1345×1396×2350mm（System without PCS）
	Weight	2.8t	3.8t
AC-Side Parameters	Rated Voltage/rated Voltage Range	380V/380V±10%	/
	Rated Frequency/rated Frequency Range	50Hz/50±2.5Hz	/
	Power Factor	-1...+1	/
	Current Distortion Rate	<3%	/

Factory

Microgrid
（Island, pasture, underserved areas with electricity shortage）

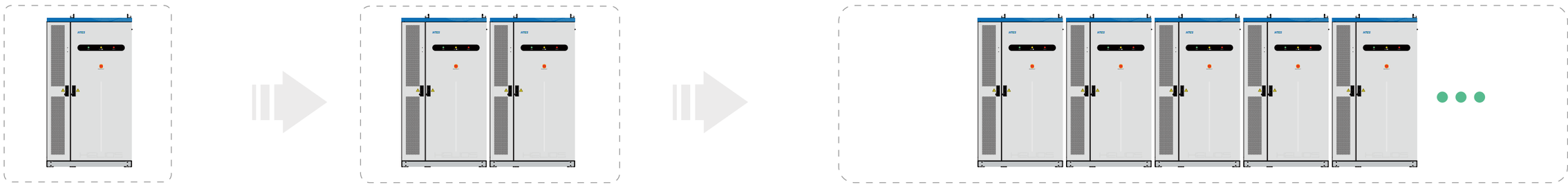
Commercial complex

Medium-Sized Commercial and Industrial 1×N Combination Cabinet Energy Storage System

Product Features and Advantages

- Expandable through the combination of multiple cabinets, wide capacity design range, easy and convenient on-site assembly.
- Independent control for each cluster and channel, discharge depth exceeding 90%.
- Liquid cooling constant temperature control can control the temperature difference of the battery cells within 3℃, effectively ensuring the safety and high-performance operation of the system.
- Well-rounded application features, suitable for various scenarios such as industrial parks, microgrids, commercial complexes, etc.

Energy Storage Combination Cabinet, Expandable with Multiple Cabinets in Parallel



1

233kWh/372kWh

1×2

466kWh/744kWh

1x5/1×N

233×5 kWh / 372×N kWh

Note: The maximum number of HELIOS B233 units that can be connected to the grid is 10, and the maximum number of units that can be connected off-grid is 5.

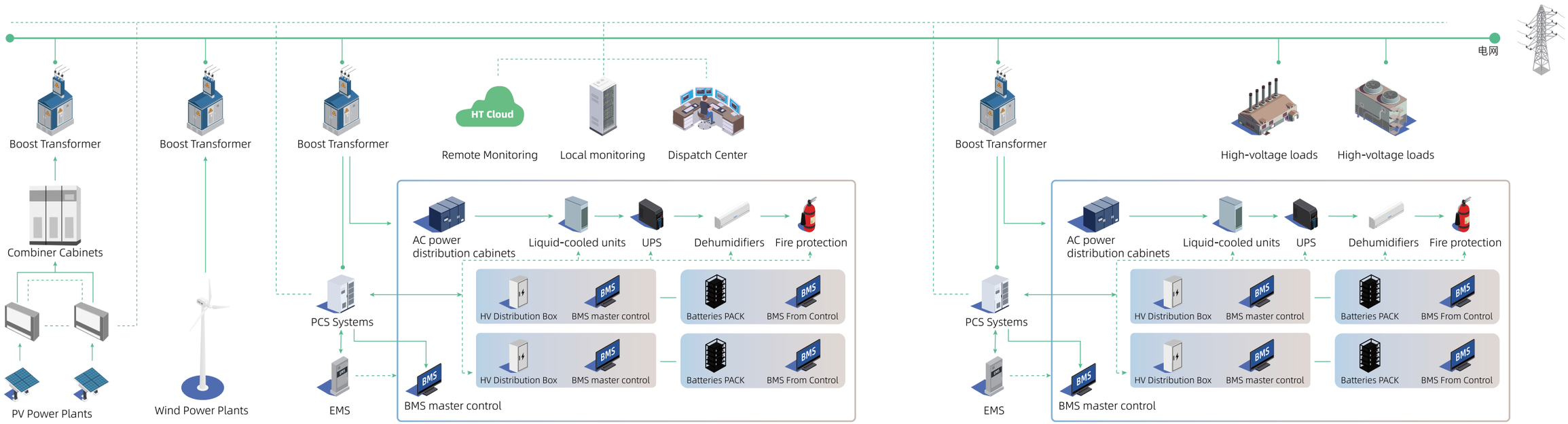
LARGE-SCALE CONTAINERIZED ENERGY STORAGE SYSTEM SOLUTION

Facilitates standardized transportation, reliable strength, and convenient lifting and installation.

The enclosure has a high degree of integration, reducing on-site installation and commissioning work.

Suitable for various working environments, such as high-altitude, high-temperature, windy, sandy, saline conditions, etc.

The enclosure has good thermal insulation performance, and the protection level can reach IP54.



HELIOS C20

Standard Capacity: 3.72MWh

Excellent performance of battery cells, long service life.

Cloud monitoring, intelligent management, and operation and maintenance.

Integrated liquid cooling plate in the enclosure, reducing the risk of leakage.

Small footprint, high integration, convenient for overall transportation.

Dynamic temperature control, higher efficiency, stable battery cell temperature, minimal temperature difference.

Can be spliced, flexible arrangement, supports PACK-level fire protection.

Generation side

Wind power generation side

Photovoltaic generation side

Microgrid

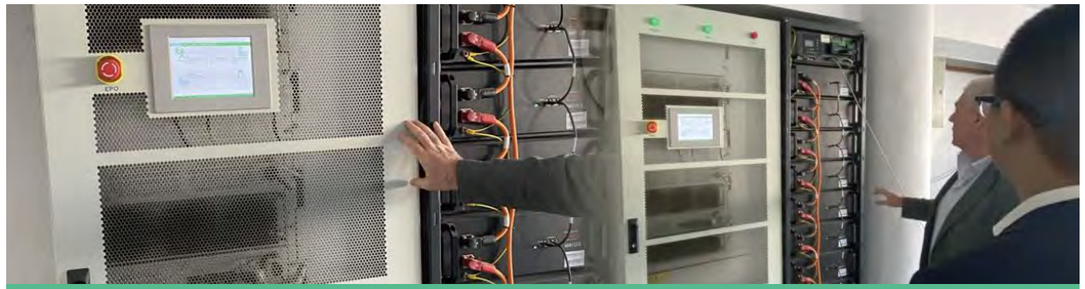
Industrial and commercial

Grid-side

Product Model	HT-ESS-3.72MWh-L	
Product Type	LFP battery bank	
Configuration	10*(1P52S*8)	
Rated Energy	3.72MWh	
Rated Voltage	1331.2V DC	
Voltage Range	1164.8~1497.6V DC	
Rated Charging Power	1863.68kW	
Rated Discharging Power	1863.68kW	
Auxiliary Power Supply	3AC 380...480V	
Environment Condition	Storage Temperature	-25℃~55℃
	operation Temperature	-25℃~55℃
	Application altitude	≤4000m(Derating, up to 4000m)
General Parameters	Size(L*W*H)	6058*2462*2896mm
	Weight	≈35t
	IP Level	IP55 (Battery Room) IP45 (Electrical Room)
	Cooling mode	Liquid Cooling
	Communication protocol	CAN, TCP/IP
	Coolant	50% Ethylene glycol aqueous solution

0.5 P SYSTEM

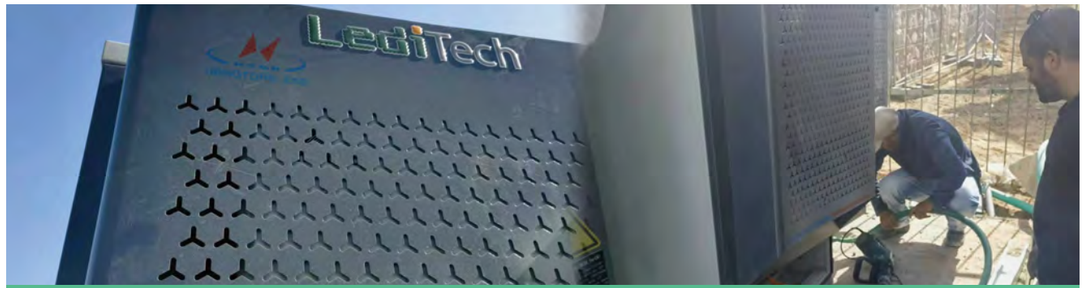
APPLICATION CASES



C&I Energy Storage in Italy

60kWh

Napoli, Italy



Eilat international red sea high school

1000kWh

Israel · Eilat

Johannesburg area (residential energy storage batteries)

3.5MWh

South Africa·Johannesburg

Changshu High-voltage

2MW/8MWh

Jiangsu · Suzhou · Changshu

Zhejiang Jujin Automotive and Motorcycle

0.9MW/1.8MWh

Zhejiang · Taizhou

Zhejiang Limin User Side Energy Storage Power Station Projec

3MW/6MWh

Zhejiang · Taizhou

Suzhou Tongli Bus Station

PV 52kWp -Energy Storage100kW/155kWh

Jiangsu · Suzhou · Wujiang

Integrated Photovoltaic and Energy Stor-
age Microgrid Project

PV 400kWp-Energy Storage 250kW/500kWh

Jiangsu · Zhenjiang