TO BE THE WORLD WIDEST ENERGY STORAGE SERVICE PROVIDER

Dawnice

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NO ENERGY WASTE

Dawnice

Yichun Dawnice Manufacture and Trade Co ., Ltd

BESS and EV Charger power station, including residential & commercial energy storage battery

COMPANY PROFILE

Yichun Dawnice Manufacture and Trade Co., Ltd. was established in 2021, with a team of 14 years of experience in lithium battery R&D and production. The production line is located in Yichun City, Jiangxi province, the "lithium capital" of Asia.

Dawnice is a young lithium battery brand that has grown very fast. After three years of development, Dawnice has become a well-known new energy enterprise in China.we have cooperated with more than 3000 clients including more than 18 distributors from all over the world.

2GWh Annual production capacity.
Customers cover 150 countries.
Sales and after-sales service sites have been established in Europe, America,Middle east, Africa

Main Business

BESS and EV Charger power station, including residential & commercial energy storage battery

Our Team

Mission: To Strive Forward No Energy Waste

Vision: To Be the World Widest Energy Storage Service Provider

Value: Action, Innovation, To be the Best, Win-win.

Slogan: Trusty , Efficiency , Responsibility and Reliability.

Qualification Certificates

Our battery has the certification recognized by main countries: Rohs,CE, UL, UN38.3,etc.

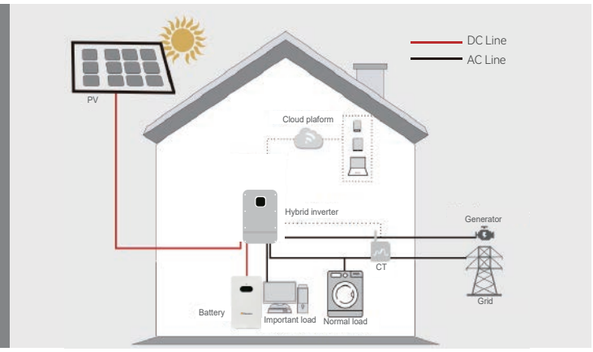
Advantages

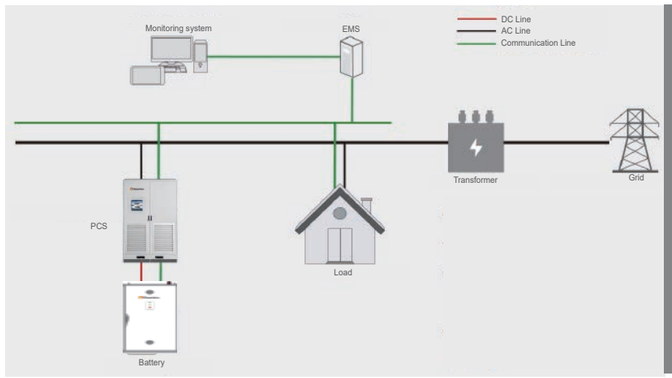
- 8000+ Cycle life
- 15years Design life
- High security
- Free replacement
- One-station style service
- High efficiency
- Free and green recycling
- Full cycle life traceability
- Super Intelligence

Residential solution

Residential BESS solution

- Provide power suuply for residential application
- Compatible with high and low voltage inverters
- Smart remote monitoring energy management system via app
- Compatible with grid power dispatching instructions





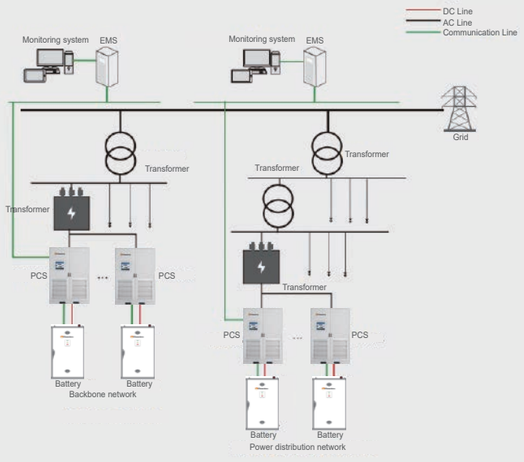
C&I ESS solution

- Power expanding due to transformer limitation
- Reactive power compensation and APF function
- Built-in transformer, high load tolerance and high reliability
- Adaptable for all kinds of grid instructions such as peak shaving.
- Integrated energy efficiency management

Grid-side energy storage solution

Grid-side energy storage solution

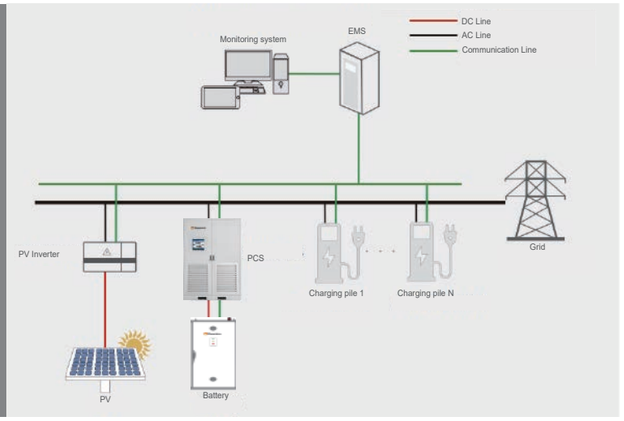
- Peak shaving and other grid instructions
- Independent participation in grid power services
- Secondary frequency modulation AVC, rotary standby , cold standby,black start



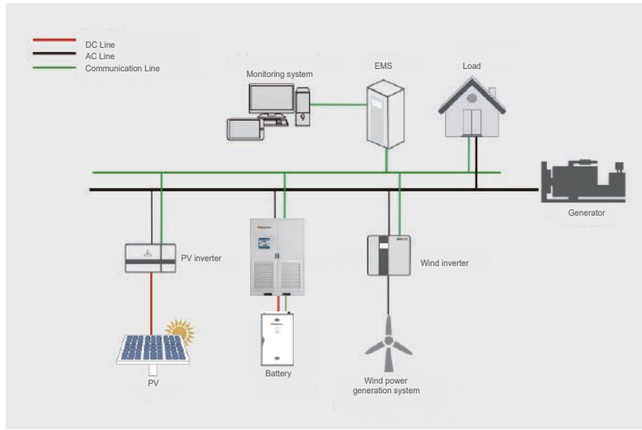
PV charging station solution

AC-BUS solution

- Integrated container solution of PV, energy storage and battery can be realized
- Large access power range and flexible design
- Can be used for power supply in areas without electricity, integrated application of PV& storage and charging, electricity trade in industrial parks,large charging stations and other micro-grid applications
- ESS peak shaving, reduce power grid distribution capacity, solve the problem of power distribution expansion



Micro-grid solution

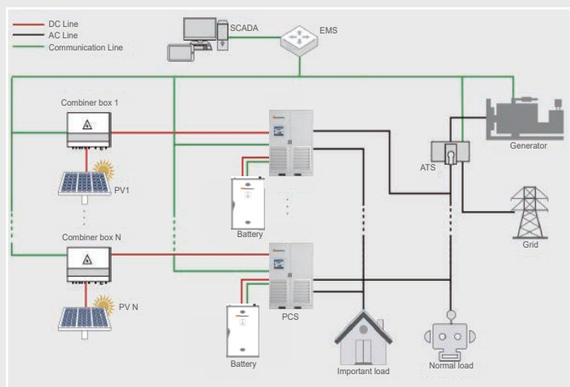


Large micro-grid off-grid solution

- High power (above MW level) independent microgrid, AC bus topology to reduce the input source coupling, improve reliability
- The system operates under off-grid mode, with energy storage systems or diesel generators providing voltage and frequency support for the entire micro grid
- EMS analyzes and predicts PV,wind power and load to realize safe, reliable and economic operation of microgrid system

Medium micro-grid solution

- Master/slave control function,all machines work in V/F mode
- Redundancy,the failure of one or more machiens does not affect the normal operation of other machines
- Current balance control, current unbalance <5%
- SOC equalization control to protect the batteries



DAWNICE BUSINESS MAPS

DAWNICE

Global Service center

LOCAL SERVICE CENTERS

Philippines Uzbekistan Portugal Mali Puerto Rico Pakistan Australia Netherlands Ireland

Bangladesh Peru Ukraine Austria Slovakia Czech Republic Yemen Nigeria Spain

EXPORTED TO MORE THAN 150 COUNTRIES

OUR PARTNER

Deye MEGAREVO solis EVE REPT 瑞浦兰钧 AESS GOODWE

victron energy AISWEI Voltronic Power SOFAR SMA SUNGROW

SINEXCEL Sol-Ark Growatt Afore KSTAR SRNE HTHIUM

GLOBAL PARTNERS

Philippine
Makati City

Uzbekistan
Republic of Uzbekistan city of Tashkent

Portugal
Madeira,Portugal

Ireland

Puerto Rico
Jorge

Mali
Sotuba Aci Pres Soterco Bamako

Austria
Bad Gleichenberg

Spain

Pakistan
Karachi

Australia
Brisbane

Ukraine
Kyiv

Nigeria
Abuja

RESIDENTIAL ENERGY STORAGE BATTERY SERIES

5/10/16/20KWH

Wall-mounted /ground-mounted

20KWH-40KWH

Low voltage stackable

20KWH-80KWH

High voltage stackable

CUSTOMIZATION SERIES

Indoor/Rack ground-mounted

PowerFly 6.0

5/10/16/20kWh
Wall-mounted /ground-mounted

Bluetooth

WIFI

Remote Control

Choosable installation


Wall-Mounted


Vertical


On wheels

High capacity

High safety

Super Intelligence

SPECIFICATION

PERFORMANCE SPECIFICATIONS				
Model	HZEB-LCT-5	HZEB-LCT-10	HZEB-LCT-16	HZEB-LCT-20
Nominal Voltage	51.2V	51.2V	51.2V	51.2V
Cell model/Configuration	3.2V100Ah/16S1P	3.2V205Ah/16S1P	3.2V314Ah/16S1P	3.2V205Ah/16S2P
Capacity(Ah)	100Ah	205Ah	314Ah	410Ah
Rated Energy(kWh)	5.120kWh	10.496kWh	16.076kWh	20.992kWh
Max.Charge/Discharge Current(A)	100A	100A	150A	200A
Voltage Range(Vdc)	44.8~57.6V			
Scalability	Up to 15 parallel			
Communication	CAN/RS485/RS232			
Cycle Life	≥8000Cycles@25℃,80%DOD			
Design Life	≥15 Years(Cycle Life≥15Years (25℃))			
MECHANICAL SPECIFICATIONS				
Product weight(KGS)	55 KGS	98 KGS	128 KGS	180 KGS
Dimension(W/D/H)(mm)	160*400*700mm	245*450*640mm	245*450*800mm	265*650*973mm
Installation Mode	Wall / Ground Mounted(20kWh battery ground-mounted only)			
IP Grade	IP54	IP54	IP54	IP20
SECURITY AND CERTIFICATIONS				
Safety(Pack)	UN38.3,MSDS,IEC62619(CB),CE-EMC			
Safety(Cell)	UN38.3,MSDS,IEC62619,CE,UL1973,UL2054			
Protection	Short- circuit protection/overcurrent protection/over-temperature protection			
ENVIRONMENTAL SPECIFICATIONS				
Operating Temperature(℃)	Charge 0℃~50℃; Discharge -10℃~50℃			
Working Altitude(m)	≤2000			
Humidity	≤95% (Non-condensing)			
Warranty	10 years			

20KWH-40KWH Low voltage stackable

High voltage accuracy (≤20 mV)
High current accuracy (≤2%@FS)

Short-circuit protection
Overcurrent protection

10kWh per module

up to 4 modules per stack

max 15 parallel to 600kWh

IP20
Water proof

Modular Design

Cloud Platform

Customization

Adjustable parameter settings

Charging equilibrium

SPECIFICATION

PERFORMANCE SPECIFICATIONS			
Model	HZEB-LCT-10ESS-2P	HZEB-LCT-10ESS-3P	HZEB-LCT-10ESS-4P
Nominal Voltage	51.2V dc		
Cell model/Configuration	3.2V206Ah/16S1P		
Capacity(Ah)	206Ah		
Rated Energy(kWh)	21.09kWh	31.65kWh	42.2kWh
Max.Charge/Discharge Current(A)	100A		
Voltage Range(Vdc)	44.8~57.6V		
Scalability	Up to 15 parallel		
Communication	CAN/RS485/RS232 - Inverter,Canbus-Inverter		
Cycle Life	≥8000Cycles@25℃,80%DOD		
Design Life	≥15 Years(Cycle Life≥15Years (25℃))		
MECHANICAL SPECIFICATIONS			
Product weight(KGS)	206.5 KGS	305.5 KGS	404.5 KGS
Dimension(W/D/H)(mm)	750*450*570mm	750*450*830mm	750*450*1090mm
Installation Mode	Stackable		
IP Grade	IP20		
SECURITY AND CERTIFICATION			
Safety(Pack)	UN38.3,MSDS,IEC62619(CB),CE-EMC		
Safety(Cell)	UN38.3,MSDS,IEC62619,CE,UL1973,UL2054		
Protection	Short- circuit protection/overcurrent protection/over-temperature protection		
ENVIRONMENTAL SPECIFICATIONS			
Operating Temperature(℃)	Charge 0℃~50℃; Discharge -10 ℃~50℃		
Working Altitude(m)	≤2000		
Humidity	≤95% (Non-condensing)		
Warranty	10 years		

20KWH-80KWH High voltage stackable

- High Safety:Top brand new LiFePO4 cells,Smart BMS build in
- Easy installation, smallfootprint

IP20 Water proof | Cloud Platform | Customization | High safety | Modular Design | High stability

- Perfect match:Compatible to high voltage inverter in the market
- LCD Touch Screen:display the parameters of each module in real time
- Comprehesive, multi-level battery warning and protection strategy
- Complete communication and monitoring functions

SPECIFICATION

PERFORMANCE SPECIFICATIONS			
Model	HZEB-HCT-5ESS-4S	HZEB-HCT-5ESS-6S	HZEB-HCT-10ESS-4S
Nominal Voltage	204.8VDC	307.2VDC	204.8VDC
Cell model/Configuration	3.2V100Ah-16S1P	3.2V100Ah-16S1P	3.2V206Ah-16S1P
Capacity(Ah)	100Ah	100Ah	206Ah
Rated Energy(kWh)	20.48kWh	30.72kWh	42.19kWh
Max.Charge/Discharge Current(A)	50A	50A	100A
Voltage Range(VDC)	179.2~230.4VDC	268.8~345.6VDC	179.2~230.4VDC
BMS brand	Udan		
Communication	CAN/RS485- Inverter		
Cycle Life	≥8000Cycles/25℃,80%DOD,0.5C		
Design Life	≥15 Years(Cycle Life≥15Years (25℃))		
MECHANICAL SPECIFICATIONS			
Product weight(KGS)	267 KGS	383 KGS	418 KGS
Dimension(W/D/H)(mm)	680*420*1095	680*420*1515	666*460*1406
Installation Mode	Stackable		
IP Grade	IP20		
SECURITY AND CERTIFICATION			
Safety(Pack)	UN38.3,MSDS,IEC62619(CB),CE-EMC		
Safety(Cell)	UN38.3,MSDS,IEC62619,CE,UL1973,UL2054		
Protection	Short- circuit protection/overcurrent protection/over-temperature protection		
ENVIRONMENTAL SPECIFICATIONS			
Operating Temperature(℃)	Charge 0℃~50℃; Discharge -10℃~ 50℃		
Working Altitude(m)	≤2000		
Humidity	≤95% (Non-condensing)		
Warranty	10 years		

CUSTOMISED SERIES

Indoor/High Voltage Rack

- Convenient Installation&maintenance
- Flexible Configuration modular design
- Customized capacity(40~200) kWh
- Top brand BMS Safe and Reliable

Easy connection | Flexible installation | IP20 Water proof | Modular Design | Cloud Platform

SPECIFICATIONS

Model（High voltage）	HZEB-HCT-86	HZEB-HCT-100	HZEB-HCT-143	HZEB-HCT-186	HZEB-HCT-200
Nominal Voltage(V)	307.2	358.4	512.0	665.6	716.8
Cell model/Configuration	3.2V280Ah/16S1P				
Capacity(Ah) Cell	280Ah				
Rated Energy(kWh)	86.02kWh	100.35kWh	143.36kWh	186.37kWh	200.70kWh
Max.Charge/Discharge Current(A)	150A				
Voltage Range(Vdc)	268.8-345.6V	313.6-403.2V	448~576V	582.4~748.8V	627.2~806.4V
Communication	Modbus,R7U(CAN,RS485)				
Cycle Life	≥8000Cycles@25℃,80%DOD				
Design Life	≥15 Years(Cycle Life≥15Years (25℃))				
MECHANICAL SPECIFICATIONS					
Product weight(KGS)	790 KGS	912 KGS	1275 KGS	1621 KGS	1748 KGS
Dimension(W/D/H)(mm)	542*787.5*1889	542*787.5*2136	1035*787.5*1643	1035*787.5*1919	1035*787.5*2137
IP Grade	IP20				
SECURITY AND CERTIFICATIONS					
Safety(Pack)	UN38.3,MSDS,IEC62619(CB),CE-EMC				
Safety(Cell)	UN38.3,MSDS,IEC62619,CE,UL1973,UL2054				
Protection	Short- circuit protection/overcurrent protection/over-temperature protection				
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature(℃)	Charge 0℃~50℃; Discharge -10℃~ 50℃				
Working Altitude(m)	≤2000				
Humidity	≤95% (Non-condensing)				
Warranty	10 years				

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE

HZEB-HCT-200

200 kWh DC Side

HZEB-ESS100P-200

100kW/200kWh All in one AC couple

HZEB-ESS100-200

100kW/200kWh Micro grid

HZEB-HCT-200

200 kWh DC Side

Features and Advantages

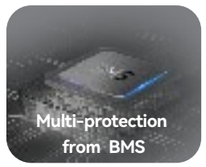
Long Life: Cycle life ≥ 8000

High Efficiency: Battery 95%, system 90%

Easy Mantaince: Self diagnosis and fault location

Quadruple protection for higher safety and reliability

One-button start, automatic operating, and it supports multiple parallel connections.



High security

Stable operation

Intelligent temperature control

Automatic fire fighting system

Application

SPECIFICATION

Battery cell	
Rated Voltage	3.2V
Capacity	280Ah
Batty Pack (1P16S)	
LiFePO4 Battery Pack	HZEB-HCT-15
Rated Voltage	51.2V
Nominal Capacity	280Ah
Pack Energy	14.336kWh
Weight	130KGS
Battery System (1P224S)	
Rated Voltage	716.8V
Nominal Capacity	280Ah
Rated Current	140A
Battery Energy	200.7kWh
Voltage Range	627.2-806.4V
Connecting Way	1P224S /1 cluster
Max Efficiency	≥95%
Cooling	Air cooling
Optimal Working Temperature Range	-10℃~55℃ under -10℃ or above 45℃,power derating
IP Grade	IP54
Dimension	2335*1250*1413mm
Weight	2500KGS
Certificates	UN38.3,MSDS,IEC62619(CB),CE-EMC

HZEB-ESS100P-200

100kW/200kWh All in one AC couple

Features and Advantages

HIGH INTEGRATION

- Highly integrated ESS with outdoor cabinet design provides high protection class
- Advanced integration technology ensures opyional system performance and lower cost

EFFICIENT AND FLEXIBLE

- Control ensures longer battery cycle life and easy for system expansion
- Modular design support max 10 sets to parallel connection

SAFE AND RELIABLE

- DC electric circuit safety management includes fast breaking and anti-arcprotection
- Multi-state monitoring and linkage actions battery system ensures safety

SMART AND ROBUST

- Fast state monitoring and faults record enables pre-alarm and faults location
- Integrated battery performance monitoring and logging

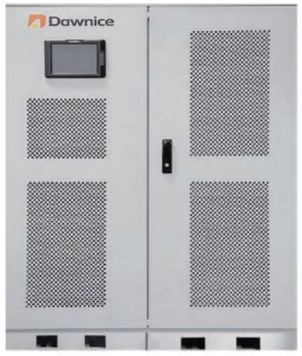
Application

SPECIFICATION

DC side	
Full load voltage range (V)	615~950 (3W+PE) /680~950 (3W+N+PE)
Maximum current	140A
AC side	
Rated voltage	230/400
voltage deviation	-10%~+15%
AC output type	(3W+PE) / (3W+N+PE)
Rated output power (kW)	100
Maximum output power (kW)	116
Maximum current(A)	167
Rated grid frequency (Hz)	50/60
Power Factor	0.99
Power factor range	1 (Lead) ~1(lag)
Current distortion rate	<3% (Rated Power)
Overload capacity	110% Long term
Maximum discharge efficiency	98.50%
System parameters	
Working Altitude (m)	2000 (above 2000 derating power)
Operating temperature	-10℃~55℃ under -10℃ or above 45℃,power derating
Communication Interface	CAN/RS485
Standards compliant	GB/T 34120-2017, GB/T 34133-2017, EN 62477 ,EN IEC 61000 ,EN50549-1,
Grid support	L/HVRT, active and reactive power control
Battery System (1P224S)	
Rated Voltage	716.8V
Nominal Capscity	280Ah
Rated Ourrent	140A
Battery Energy	200.7kWh
Voltage Range	627.2-806.4V
Connecting Way	1P224S /1 cluster
Max Efficiency	90%
Cooling	Air Cooling
Optimal Working Temperature Range	-10℃~55℃
IP Grade	IP54
Dimension	2185*1500*1330mm
Weight	2450KGS
Certifications	UN38.3,MSDS,IEC62619(CB),CE-EMC
Warranty	10 years

HZEB-ESS100-200

100kW/200kWh Micro grid



Features and Advantages

- Long Life: Cycle life ≥ 8000
- Integrated: All in one design
- High efficiency: Battery 94%, system above 87%
- Multi brance: Support load, battery and PV
- Easy mantaince: Self diagnosis and fault location.
- Easy management: Ready to work, auto switch on grid/off grid mode

Application

SPECIFICATION

PV Parameters		
MPPT voltage range	DC250V ~ DC850V	
MPPT full power Volt range	DC450V ~ DC850V	
MPPT Quantity	2-4（Optional）	
	AC grid connected parameters	**AC off-grid parameters**
Rated power (kW)	100	100
Rated current (A)	114	144
Rated voltage (V)	AC 380/400/480V(Customized)	380/400
AC connection	3W+N+PE	
Rated frequency (Hz)	50/60	50/60
Overload capacity		110% long-term
THDi		<3%(Rated power)
THDu	<1%(Linear Load)	
Battery parameters		
Rated voltage (V)	716.8	
Nominal Capacity(Ah)	280	
Battert Energy	200.7kWh	
Voltage Range	627.2-806.4V	
Connecting Way	1P224S/1 cluster	
Certifications		
Safety(Pack)	UN38.3,MSDS,IEC62619(CB),CE-EMC	
Safety(Cell)	UN38.3,MSDS,IEC62619,CE,UL1973,UL2054	
Module power (kWh)	14.336	
Module Qty	14	
System rated power (kWh)	200.7	
Cycle Life	25℃ 0.5C/ 80%DOD/ SOH80% ≥ 8000 times	
Basic Parameters		
Waterproof grade	IP54	
Working temperature	-10℃~55℃ under -10℃ or above 45℃,power derating	
Relative humidity（No condensation）	0 ~95%	
Cooling	Air cooling	
On and off grid switching dev	STS	
Working altitude (m)	2000(>2000 derating)	
Data display	Touch screen	
Communication Interface	RS485、CAN	
Warranty	10 years	

PROJECT CASES

Residential energy storage project

United States

Australia

Israel

Mali

Middle east

The United Kingdam

PROJECT CASES

Commercial & Industry energy storage project

China

Yemen

Netherlands

United States

Germany

Nigeria