
Dawnice
Dawnice
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3GWH ANNUAL CAPACITY

New production line launched to ensure efficient global order fulfillment.

12-14 PPM

Four-times increase in productivity.
The output rate ramped up from 3-4 PPM to 12-14 PPM.





INTELLIGENT MANUFACTURING

High-Degree Automation Matrix

The modular lines are operated by 4 robots, handling core processes.
Smart positioning technology throughout ensures consistent, high-standard operations.

Monitors the entire production process in real time

Automatically activates for any abnormalities or product deviations.
Provides 100% full-range quality inspection and testing coverage.

95%
Full-auto

100%
Quality Inspection



RESIDENTIAL ESS

PowerFly 6.0 Series

Wall-mounted / Ground-mounted

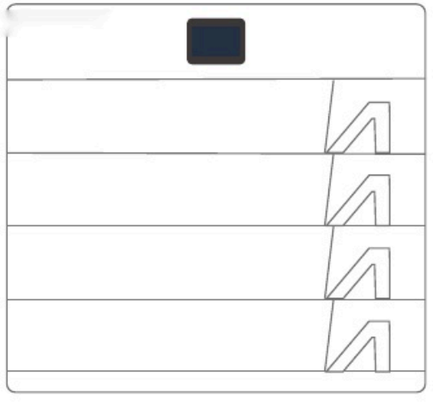
Mobile Control / IP54 / Optional Installation



HV Stackable Series

Six Ultra BS06-S

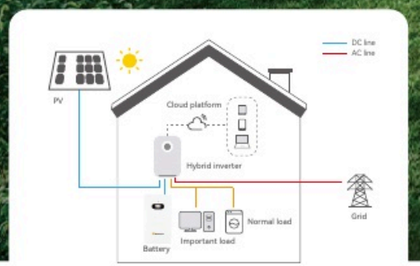
Mobile Control / Higher Density



Energy storage battery PowerFly 6.0

Wall-mounted / Ground-mounted

5kWh/10kWh
16kWh/20kWh



Features

Mobile Control

- Remote fault diagnosis, upgrade and maintenance
- OCV intelligent algorithm calibration ensures SOC accuracy

IP54 Dust and Water Protection

- IP54 protection rating, resistant to 200mm of continuous heavy rain
- Dust-proof with desert-grade shield

High Performance

- Big capacity with small volume for household
- Cycle life ≥ 8000 cycles

Flexible Adaptability

- Quick and easy installation
- Modular design, expandable to 15 units in parallel

PERFORMANCE SPECIFICATIONS				
Model	HZEB-LCT-5	HZEB-LCT-10	HZEB-LCT-16	HZEB-LCT-20
Battery Type	$LiFePO_4$			
Nominal Voltage	51.2V	51.2V	51.2V	51.2V
Configuration	3.2V100Ah/1P16S	3.2V206Ah/1P16S	3.2V314Ah/1P16S	3.2V392Ah/1P16S
Capacity(Ah)	100Ah	206Ah	314Ah	392Ah
Nominal Energy(kWh)	5.12kWh	10.54kWh	16.07kWh	20.07kWh
Usable Energy(kWh@90%DOD)[1]	4.61kWh	9.49kWh	14.47kWh	18.06kWh
Max.Charge/Discharge Current(A)[2]	100A	100A	150A	200A
Voltage Range(V)	44.8~57.6V			
Scalability	Up to 15 units in parallel			
Communication Interface	CAN、RS485			
Cycle Life (@25℃,90%DOD)[3]	≥5000Cycles	≥6000Cycles	≥8000Cycles	≥8000Cycles
Warranty Period[4]	5+5 years			
Cumulative Discharge Energy	8.2MWh	16.9MWh	25.8MWh	32.2MWh
PERFORMANCE SPECIFICATIONS				
Weight(kg)	59kg	83.5kg	127kg	146kg
Dimension(W*D*H)	400*160*700mm	460*245*640mm	460*245*800mm	475*265*825mm
Installation Method	Wall-mounted/Ground-mounted			
IP Rating	IP54			
SECURITY AND CERTIFICATION				
Safety(Pack)	UN38.3,MSDS,IEC62619(CB),CE-EMC,IEC63056			UN38.3,MSDS
Safety(Cell)	UN38.3,MSDS,IEC62619,CE,UL1973,UL2054			
Protection	BMS			
ENVIRONMENTAL SPECIFICATIONS				
Operating Temperature Range(℃)	Charge 0℃~55℃;Discharge-20℃~55℃			
Altitude(m)	≤2000m			
Humidity	≤90%(Non-condensing)			

[1] [illegible]

[2] [illegible]

[3] [illegible]

[illegible]



Features

Higher Density, Fewer Packs

50% higher energy density

Intelligent Design

Bluetooth/WiFi enabled with APP monitoring and OTA remote upgrade capabilities

Tip-resistant Fixation Point Design

Inter-module locking pins/fasteners with rear wall-mounted anchor points

Snap-Fit Installation With Freeform Stacking

Consolidated from dual-stack to single-stack design, with scalable 6-stack capacity for complex scenarios

High Safety Performance

Integrated grounding points with enhanced protective safety

Smart & High-Efficiency

Smart & high-efficiency system with self-learning SOC/SOH capability and autonomous fault diagnostics

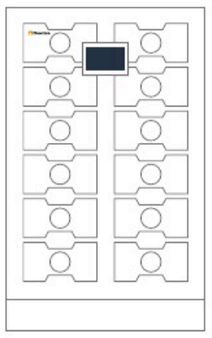
PERFORMANCE SPECIFICATIONS					
Model	BS06-15-S/2S	BS06-23-S/3S	BS06-30-S/4S	BS06-38-S/5S	BS06-46-S/6S
Battery Type	$LiFePO_4$				
Nominal Voltage	153.6V	230.4V	307.2V	384.0V	460.8V
Configuration	3.2V100Ah/1P24S				
Capacity(Ah)	100Ah				
Nominal Energy(kWh)	15.36kWh	23.04kWh	30.72kWh	38.40kWh	46.08kWh
Usable Energy(kWh@90%DOD)[1]	13.82kWh	20.73kWh	27.64kWh	34.56kWh	41.47kWh
Max.Charge/Discharge Current(A)[2]	50A				
Voltage Range(V)	134.4~172.8V	201.6~259.2V	268.8~345.6V	336~432V	403.2~518.4V
Scalability	Up to 5 battery clusters in parallel				
Communication Interface	CAN;RS485				
Cycle Life[3]	≥6000 Cycles（25℃,0.5C/0.5C,90%DOD,70%EOL）				
Warranty Period[4]	5+5years				
Cumulative Discharge Energy	24.6MWh	37.0MWh	49.3MWh	61.6MWh	74.0MWh
MECHANICAL SPECIFICATIONS					
Weight(kg)	184kg	259kg	334kg	409kg	484kg
Dimension (W*D*H)	870*450*530mm	870*450*690mm	870*450*850mm	870*450*1010mm	870*450*1170mm
Installation Method	Stackable				
IP Rating	IP65				
Anti-corrosion Grade	C4				
SECURITY AND CERTIFICATION					
Safety(Pack)	UN38.3,MSDS				
Safety(Cell)	UN38.3,MSDS,IEC62619,CE,UL1973,UL2054				
Protection	BMS,Breaker				
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature Range(℃)	Charge 0℃~55℃;Discharge-20℃~55℃				
Altitude(m)	≤2000m				
Humidity	≤90%(Non-condensing)				

[1] DC usable energy，test conditions: 25℃±2℃，0.5C charge & discharge，90% DOD.System usable energy may vary due to system configuration parameters.
[2] The current is affected by temperature and SOC.
[3] Battery cell life standard，using cells that meet the requirements of this standard.

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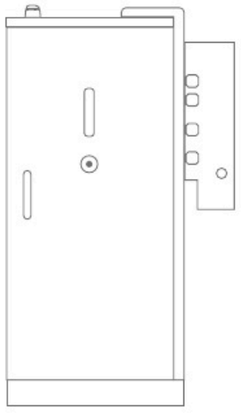
C&I ENERGY STORAGE SYSTEMS



EnerFlex-2.0

112-225kWh HV Indoor
Energy Storage Battery

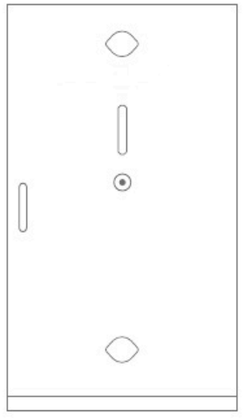
Better heat dissipation
Easy maintenance，Dust-proof design



LOONG POWER 4.0

112kWh Outdoor
Energy Storage Battery

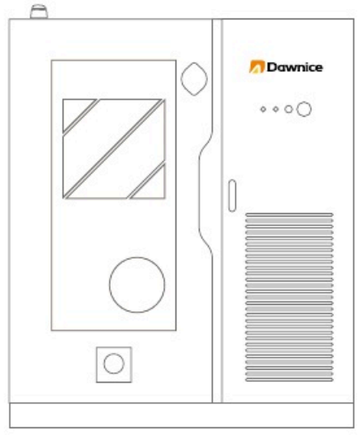
High Performance，Safety and Security
Flexible Expansion，Integrated Cabinet Design



LOONG POWER 4.0

225kWh DC Outdoor
Energy Storage Battery

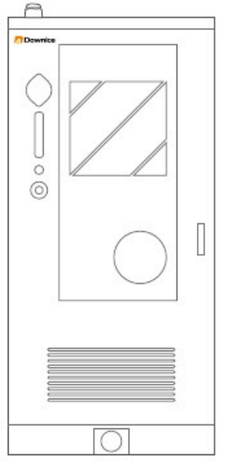
High Performance，Safety and Security
Flexible Expansion，Integrated Cabinet Design



Nezha Series BS07-265-ES-G

Integrated PV-Storage
-Genset Hybrid System

All-in-one Hybrid System
125kW/265kWh，Multi-Energy Integration



Nezha Series BS07-265-ES-X

Peak Shaving & Valley Filling
All-in-one ESS

All-in-one On-grid System
125kW/265kWh，Up to 10 units in parallel

HV Indoor Energy Storage Battery
EnerFlex-2.0

Dust Proof， No Cable Leakage
More Safer & Beautiful Appearance



Features and Advantages

Better Heat Dissipation
- Temperature difference reduced by 35%
  Temperature rise reduced by 32.12%

Easy Installation
- 225kWh battery installed in 5 minutes

High Flexibility
- BMS self-identification,
  up to 10 units in parallel

Easy Maintenance
- External communication acquisition module and remote screen，find the battery status in 5 minutes

SPECIFICATIONS				
Model	BS09-112-R/7S	BS09-160-R/10S	BS09-192-R/12S	BS09-225-R/14S
Nominal Voltage(V)	358.4V	512V	614.4V	716.8V
Cell Mode/Configuration	3.2V314Ah/1P16S			
Capacity(Ah)Cell	314Ah			
Nominal Energy(kWh)	112.53kWh	160.76kWh	192.92kWh	225.07kWh
Usable Energy(kWh@90%DOD)[1]	101.28kWh	144.69kWh	173.62kWh	202.56kWh
Max.Charge/Discharge Current(A)[2]	157A			
Voltage Range(V)	313.6~403.2V	448~576V	537.6~691.2V	627.2~806.4V
Communication Interface	CAN; RS485			
Cycle Life[3]	≥8000 Cycles (25℃, 0.5C/0.5C, 90%DOD, 70%EOL)			
Warranty Period[4]	5+5 years			
Design Life	≥15Years(25℃)			
Display Mode	HMI Display (optional)			
	Green light: system running / Red light: system alarm			
Cooling Method	Fan cooling			
Installation	Floor-mounted			
Cumulative Discharge Energy	180.7MWh	258.1MWh	309.8MWh	361.4MWh
MECHANICAL SPECIFICATIONS				
Weight(kg)	1015kg	1400kg	1630kg	1900kg
Dimension(W*D*H)	1100*792*1221mm	1100*792*1725mm	1100*792*1974mm	1100*792*2226mm
IP Rating	IP20			
SECURITY AND CERTIFICATIONS				
Safety(Pack)	UN38.3,MSDS			
Safety(Cell)	UN38.3,MSDS,IEC62619,CE,UL1973,UL2054			
Protection	Short-circuit protection,overcurrent protection,over-temperature protection			
ENVIRONMENTAL SPECIFICATIONS				
Operating Temperature(℃)	Charging: 0~55℃ / Discharging: -20~55℃			
Working Altitude(m)	≤2000m			
Humidity	≤90%(non-condensing)			

[1] DC usable energy，test conditions: 25℃±2℃，0.5C charge & discharge，90% DOD.System usable energy may vary due to system configuration parameters.
[2] The current is affected by temperature and SOC.
[3] Battery cell life standard，using cells that meet the requirements of this standard.

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112kWh Outdoor LOONG POWER 4.0 Energy Storage System

Plug-and-play Inverter Compatibility

Triple Safety Monitoring



Features

Multi-Status Visual Indication

- Instant operational status recognition
- Hazardous condition alert within 1s

Triple Safety Monitoring

- Real-time detection: smoke , temperature
- Cabinet equipped with automatic fire alarm

Plug-and-play Inverter Compatibility

- ≥8,000-cycle durability certification
- Auto-recognition & plug-and-play

Equipped with a Display Screen

- Real-time system parameter visualization
- Integrated fault diagnosis system

MODEL	BS09-112-D-P
Battery Type	$LiFePO_4$
Nominal Energy	16.076kWh
Nominal Capacity	314Ah
Nominal Voltage	51.2V
Number of Battery Packs	7
Charging Temperature Range	0℃~55℃
Discharging Temperature Range	-10℃~55℃
Module Parameters	
Nominal Energy	112.53kWh
System Usable Energy(kWh@90%DOD)[1]	101.28kWh
Nominal Voltage	358.4V
Operating Voltage Range	313.6~403.2V
Combination Method	1P112S
Charge and Discharge Current (A)[2]	157A
Discharge Depth	Max 90%(Suggestion 80%)
IP Rating	IP54
Anti-corrosion Grade	C3(Optional C5)
Installation	Outdoor
Cooling Method	Intelligent Air Cooling
Operating Temperature	-30~55℃ (derating above 45℃)
Storage Temperature	0~35℃
Display Mode	Green light: system running / Red light: system alarm
Communication Interface	CAN; RS485
BMS Communication Method	CAN
Operating Humidity	≤90%(non-condensing)
Operating Altitude	≤2000m
Cycle Life[3]	≥8000 Cycles (25℃ , 0.5C/0.5C, 90%DOD, 70%EOL)
Warranty[4]	5+5 years
Dimension (W*D*H)	915*1287*2085mm
Weight	1320kg
Cumulative Discharge Energy	180.7MWh
Certification	MSDS, UN38.3,IEC62619,IEC61000,IEC62477

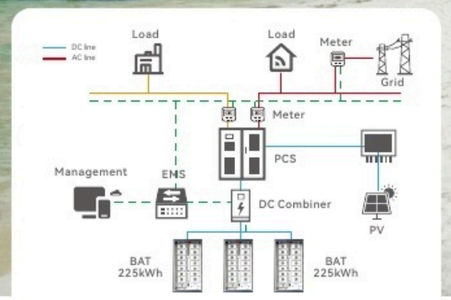
[1] DC usable energy, test conditions: 25℃±2℃, 0.5C charge & discharge, 90% DOD.System usable energy may vary due to system configuration parameters.
[2] The current is affected by temperature and SOC.
[3] Battery cell life standard, using cells that meet the requirements of this standard.

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225kWh DC Outdoor LOONG POWER 4.0

Automatic Fire Alarm
Automatic Fire Extinguishing System

Energy Storage Battery





Features

High Efficiency Conversion
- Charge-discharge conversion and system efficiency≥90%

Intelligent Control
- Intelligent climate control systems for a wide range of applications

Stable Operation
- With perfect communication, monitoring function,long-time continuous and stable operation

Fire Fighting System
- Cabinet equipped with automatic fire alarm and automatic fire extinguishing system

Model	BS09-225-D
Battery Pack(1P16S)	
Battery Type	$LiFePO_4$
Rated Voltage	51.2V
Nominal Capacity	314Ah
Pack Energy	16.076kWh
Weight	122kg
Battery System(1P224S)	
Rated Voltage	716.8V
Nominal Energy(kWh)	225.07kWh
Usable Energy(kWh@90%DOD)[1]	202.56kWh
Max.Charge/Discharge Current(A)[2]	157A
Voltage Range	627.2-806.4V
Cycle Life[3]	≥8000 Cycles(25℃,0.5C/0.5C,90%DOD,70%EOL)
Warranty Period[4]	5+5 years
Cumulative Discharge Energy	361.4MWh
Configuration	1P224S
Scalability	Up to 10 units in parallel
Relative Humidity	90%
Cooling Method	Intelligent Air Cooling
Noise	75dB(<1m distance)
Altitude	≤2000m
Operating Temperature Range(℃)	-30℃~55℃(> 45℃ derating)
Display Mode	Green light: system running / Red light: system alarm
Communication Interface	CAN;RS485
BMS Communication Method	CAN
IP Rating	IP54
Anti-corrosion Grade	C3(Optional C5)
Dimension (W*D*H)	1250*1413*2385mm
Weight	2540kg
Certifications	MSDS, UN38.3,IEC62619,IEC61000,IEC62477

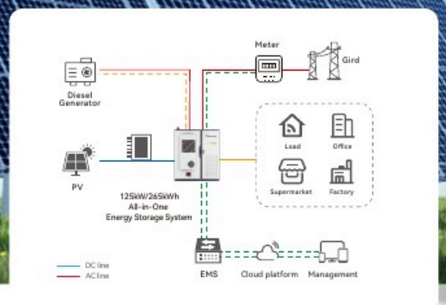
[1] DC usable energy, test conditions: 25℃±2℃, 0.5C charge & discharge, 90% DOD.System usable energy may vary due to system configuration parameters.
[2] The current is affected by temperature and SOC.
[3] Battery cell life standard, using cells that meet the requirements of this standard.

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-Genset Hybrid System

Nezha Series BS07-265-ES-G

125kW/265kWh





Features

Advanced Battery Safety System

Triple-layer protection architecture
Real-time fault diagnosis
Multi-level thermal runaway prevention

Intelligent Power Management

High-precision SOC/SOH monitoring
Adaptive charge/discharge control
≥99.9% system availability

Integrated Fire Protection

Multi-sensor early warning
Automatic aerosol suppression
<500ms response time

Multi-Energy Integration

Seamless PV/diesel/grid coupling
Automatic source transfer (≤20ms)
Hybrid power scheduling

Flexible Load Management

3P4W unbalanced load support
Dynamic phase compensation
0.9 leading/lagging PF adjustment

Multi-Mode Operation

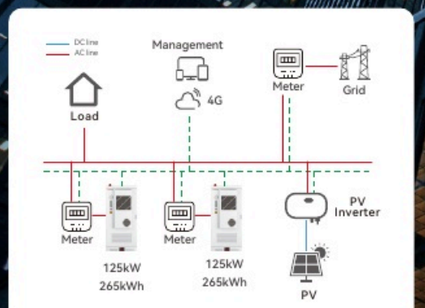
Grid-connected/Islanding/Hybrid modes
Black start capability
Microgrid interoperability

Model	BS07-265-ES-G
Battery Parameters	
Battery Type	$LiFePO_4$
Configuration	1P264S
Rated Battery Voltage	DC 844.8V
Nominal Capacity	314Ah
Battery Voltage Range	739.2~950.4V
Nominal Energy	265.267kWh
Usable Energy(kWh@90%DOD)	238.74kWh
Cycle Life	≥8000 Cycles(@25℃,0.5C,90%DOD,70%EOL)
Warranty Period	5+5 years
Cumulative Discharge Energy	426.0MWh
PV input Parameters	
Input Power	120kW
PV Open-circuit Voltage	DC 200~900V
MPPT Voltage Range	DC 200~700V
Start-up Voltage	250V
No. of MPPT Trackers	1
Max. PV Current	200A
Short-circuit Current	60A+60A+60A+60A
AC (On Grid)	
Rated Power	125kW
Output Voltage	AC 230/400V
Grid Frequency	50/60Hz
Grid Connection Form	3W+N+PE
Power Factor	0.99
Power Factor Range	-1(leading)~1(lagging)
THDi	<2%(rated power)
AC (off-grid)	
Rated Power	125kW
Output Voltage	AC 230/400V
Grid Frequency	50/60Hz
AC Voltage harmonic	<3%(Linear load)
Isolation Transformer Parameters	
Voltage	AC 400/400V
Capacity	150kVA
Max. Efficiency	≥97%
Short-Circuit Impedance	4%
Basic Parameters	
Dimension (W*D*H)	1758*1476*2135mm
Weight	3350kg
Operating Temperature Range(℃)	-30℃~55℃(> 45℃ derating)
Relative Humidity	5%~90%(non-condensing)
IP Rating	IP54
Anti-corrosion Grade	C4(Optional C5)
Noise	75dB(<1m distance)
Altitude	≤2000m
Cooling Method	Intelligent Air Cooling (Battery compartment air conditioning,electrical compartment fan)
Certifications	UN38.3,MSDS,IEC62619(CB),IEC63056(CB),IEC62040-1(CB),CE-EMC,IEC62477-1,IEC60529

Peak Shaving & Valley Filling All-in-one ESS

Nezha Series BS07-265-ES-X

125kW/265kWh





Features

Improve Energy Density

314Ah high-capacity cells with industry-leading energy density CTP (cell-to-pack) technology improve energy density

Flexible & Space-Saving Deployment

Front-in/rear-out thermal design enables zero-gap side-by-side & back-to-back installation optimized airflow maintains stability in high-density layouts

Multi-Layer Safety Protection

Dual fire suppression: cluster-level aerosol + cabin-level water mist enhanced cell monitoring for precise cut-off

Intelligent Temperature Control

PCS waste heat recovery reduces auxiliary cooling energy

Foolproof & Efficient Maintenance

Error-proof busbar design cuts installation time
Advanced balancing algorithm extends battery lifespan

Smart Monitoring System

Real-time voltage/temperature tracking for proactive safety management

Model	BS07-265-ES-X
Battery Parameters	
Battery Type	$LiFePO_4$
Cell Mode/Configuration	3.2V314Ah/1P264S
Rated Battery Voltage	DC 844.8V
Battery Voltage Range	DC 739.2~950.4V
Nominal Energy	265.26kWh
Usable Energy(kWh@90%DOD)[1]	238.74kWh
Max Charge/Discharge Current(A)[2]	157A
Cycle Life[3]	≥8000 Cycles(@25℃,0.5C,90%DOD,70%EOL)
Warranty Period[4]	5+5 years
Cumulative Discharge Energy	426.0MWh
AC (On Grid)	
Rated Voltage	400V
Rated Voltage Range	±15%
Grid Frequency	50/60Hz
Grid Connection Form	3W+N+PE
Rated Power	125kW
Max. power	138kW
Max. current[4]	200A
Power Factor	0.99/-1~1
THDi	<2%(rated power)
DC Component	<0.5%
Overload Capacity	110%
Max. efficiency	98.5%
Basic Parameters	
Dimension (W*D*H)	1095*1520*2395mm
Weight	2680kg
Operating Temperature Range(℃)	-30℃~55℃(> 45℃ derating)
Relative Humidity	5%~90%(non-condensing)
IP Rating	IP54
Anti-corrosion Grade	C4(Optional C5)
Noise	75dB(<1m distance)
Altitude	≤2000m
Cooling Method	Intelligent Air Cooling
Fire Protection	Aerosol and water fire protection
Communication Interface	CAN;RS485
Certifications	UN38.3,MSDS,IEC62619(CB),IEC63056(CB),IEC62040-1(CB),CE-EMC,IEC62477-1,IEC60529

[1] DC usable energy，test conditions: 25℃±2℃，0.5C charge & discharge，90% DOD.System usable energy may vary due to system configuration parameters.
[2] The current is affected by temperature and SOC.
[3] Battery cell life standard，using cells that meet the requirements of this standard.

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Honey Series
All-in-One C&I 125kw/261kWh Liquid-cooled ESS

125kW/ 261kWh

Features

All-in-One Integration

1.4m² compact design integrating battery, PCS, EMS and safety systems for fast and flexible deployment.

Intelligent Liquid Cooling

Intelligent liquid cooling ensures ≤3℃ temperature difference and extends cycle life by over 20%.

Multi-Level Safety Protection

Multi-level safety protection: temperature monitoring, smoke detection, fire suppression and explosion relief design

Optimized Energy Savings

Optimized for C&I peak-valley arbitrage, delivering efficient energy management and approximately 21% cost savings.

PERFORMANCE SPECIFICATIONS	ESS 261kWh Liquid-cooled
Battery Parameters	
Battery Type	$LiFePO_4$
Cell Specifications	3.2V/314Ah
Max Charge & Discharge Rate	0.5C
Configuration	1P260S
Nominal Energy	261.248kWh
Rated Voltage	832VDC
Voltage Range	728~949VDC
Cooling-down Method	Liquid cooling
Cycle Life	8000Cycles@70%SOH (25 C±2 C, 0.5P)
AC Side Parameters	
Rated AC Power	125kW
Rated Voltage	230/400Vac, 3L+N+PE
Grid Connection Form	Three-phase four-wire
Rated Frequency	50/60Hz
Total Current Waveform Distortion Rate	<3%
Cooling-down Method	Intelligent forced air cooling
System Parameter	
Temperature Range	-30 ~ 50℃
Humidity	≤95%RH(no condensation)
Height	≤2000m
IP Rating	IP54
Fire Extinguisher System	Aerosol fire extinguishing device
CI	Ethernet/RS485
Corrosion Protection Grade	C4
Product Dimensions (W×D×H)	1055×1300×2300mm
Package Dimensions (W×D×H)	1130×1400×2510mm
Weight	2500KG

Sunflower Series
125kW/ 261kWh
Liquid-cooled ESS



125kW/ 261kWh

Inverter Data	
Battery Type	Lithium-ion
Battery Voltage Range	300 - 950 V
Max. charge / discharge current	100 A × 2 / 100 A × 2
Number of battery ports	2
Max. charge / discharge current of each port	100 A
Communication	CAN / RS485
PV String Input Data	
Recommended max. PV array size	250 kW
Max. usable PV input power	250 kW
Max. input voltage	1000 V
Rated voltage	600 V
Start-up voltage	180 V
MPPT voltage range	150 - 950 V
Max. input current	10 × 42 A
Max. short circuit current	10 × 60 A
MPPT number / Max. input strings number	10 / 20
Other Inverter Datas	
Rated grid voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V
Rated input voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V/ 400 V
Output AC (Back-up)	125 kW

Battery Data	ESS 261kWh Liquid-cooled
Model	WD-ECF260S
Battery Parameters	
Battery Type	$LiFePO_4$
Cell Specifications	3.2V/314Ah
Max Charge & Discharge Rate	0.5C
Configuration	1P260S
Nominal Energy	261.248kWh
Rated Voltage	832VDC
Voltage Range	728~949VDC
Cooling-down Method	Liquid cooling
Cycle Life	8000Cycles@70%SOH (25 C±2 C, 0.5P)
System Parameter	
Temperature Range	-30 ~ 50℃
Humidity	≤95%RH(no condensation)
Height	≤2000m
IP Rating	IP54
Fire Extinguisher System	Aerosol fire extinguishing device
CI	Ethernet/RS485
Corrosion Protection Grade	C4
Product Dimensions (W×D×H)	1055×1300×2300mm
Package Dimensions (W×D×H)	1130×1400×2510mm
Weight	2620KG

Honey Series
261kWh DC Outdoor Liquid-cooled ESS



Features

Automatic Coolant Refill

Automatically replenishes coolant to maintain stable system performance while reducing maintenance costs by up to 50%.

Intelligent Liquid Cooling

Intelligent liquid cooling ensures ≤3°C temperature difference and extends cycle life by over 20%.

Multi-Level Safety Protection

Multi-level safety protection: temperature monitoring, smoke detection, fire suppression and explosion relief design

Optimized Liquid Cooling Assembly

Advanced bonding process improves heat transfer, ensures uniform cell temperature, and enhances vibration resistance.

PERFORMANCE SPECIFICATIONS	ESS 261kWh Liquid-cooled
Model	WD-ECF260S
Battery Parameters	
Battery Type	$LiFePO_4$
Cell Specifications	3.2V/314Ah
Max Charge & Discharge Rate	0.5C
Configuration	1P260S
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Rated Voltage	832VDC
Voltage Range	728~949VDC
Cooling-down Method	Liquid cooling
Cycle Life	8000Cycles@70%SOH (25 C±2 C, 0.5P)
System Parameter	
Temperature Range	-30 ~ 50℃
Humidity	≤95%RH(no condensation)
Height	≤2000m
IP Rating	IP54
Fire Extinguisher System	Aerosol fire extinguishing device
CI	Ethernet/RS485
Corrosion Protection Grade	C4
Product Dimensions (W×D×H)	1055×1300×2300mm
Package Dimensions (W×D×H)	1130×1400×2510mm
Weight	2450KG



Inverter Data		
Model	80kW	100kW
Battery Type	Lithium-ion	Lithium-ion
Battery Voltage Range	300 - 950 V	300 - 950 V
Max. charge / discharge current	100 A × 2 / 100 A × 2	100 A × 2 / 100 A × 2
Number of battery ports	2	2
Max. charge / discharge current of each port	100 A	100 A
Communication	CAN / RS485	CAN / RS485
PV String Input Data		
Recommended max. PV array size	160 kW	200 kW
Max. usable PV input power	160 kW	200 kW
Max. input voltage	1000 V	
Rated voltage	600 V	
Start-up voltage	180 V	
MPPT voltage range	150 - 950 V	
Max. input current	10 × 42 A	
Max. short circuit current	10 × 60 A	
MPPT number / Max. input strings number	10 / 20	
Other Inverter Datas		
Rated grid voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V	
Rated input voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V/ 400 V	
Output AC (Back-up)	80 kW	100 kW
Cooling concept	Intelligent redundant fan-cooling	
Dimensions (W × H × D) 1174 × 814 × 400 mm	1174 × 814 × 400 mm	
Weight	170 kg	

Battery Data	ESS 208kWh Liquid-cooled
Model	WD-ECF208S
Battery Parameters	
Battery Type	$LiFePO_4$
Cell Specifications	3.2V/314Ah
Max Charge & Discharge Rate	0.5C
Configuration	1P208S
Nominal Energy	208.998kWh
Rated Voltage	665.6V
Voltage Range	582.4~759.2V
Cooling-down Method	Liquid cooling
Cycle Life	8000Cycles@70%SOH (25 C±2 C, 0.5P)
System Parameter	
Temperature Range	-30 ~ 50℃
Humidity	≤95%RH(no condensation)
Height	≤2000m
IP Rating	IP54
Fire Extinguisher System	Aerosol fire extinguishing device
CI	Ethernet/RS485
Corrosion Protection Grade	C4
Product Dimensions (W×D×H)	1055×1300×2300mm
Package Dimensions (W×D×H)	1130×1400×2510mm
Weight	< 2.5 T



Features

Multi-Mode Flexibility

- Multiple working modes can be flexibly set.

Real-Time Status Monitoring

- Support real-time online monitoring of system status

Intelligent Thermal Control

- Support battery management system and comprehensive thermal management.

Universal Power Access

- Support simultaneous access to load, battery, grid, and DG

Thermal Isolation Safety

- The electrical compartment and battery compartment are separated to prevent runaway spread of heat.

Rapid Deployment Design

- Integrated design, easy to transport and install,flexible deployment

PERFORMANCE SPECIFICATIONS

Model	ESS1000-2089	ESS500-1045
AC Data		
Rated Power (kW)	1000	500
Rated Voltage (V)	400	400
Rated Current (A)	1570A	785A
Voltage Range (V)(On-grid)	320V-460V	
Rated Frequency	50/60Hz	
Frequency Range	45-55/55-65Hz	
THDi(On-Grid)	<3%	
THDu (Off-Grid)	<1% linear; < 5% non-linear	
Power Factor	1 (0.8 leading ~ 0.8 laging can be set)	
Overload Capacity	110% Long term	
AC Output	3W+N+PE	
Isolation Transformer	315/400	
On-grid Off-grid Switching	Support	
Battery Data		
Cell Type	3.2V/314Ah	
Nominal Voltage(V)	665.6V/10P208S	665.6V/5P208S
Nominal Energy (MWh)	2.089	1.045
Working Voltage Range (V)	582.4-748.8V	
Max. Charge and Discharge Rate	0.5C@25°C	
Cycle Life	≥8000	
System Data		
Dimensions W*D*H (mm)	40GP	20GP
Net Weight (kg)	38,000	21,000
Operating Temperature (℃)	0~+45	
Relative Humidity	0~95%(non-condensing)	
Ingress Protection	IP54	
Noise Emission (dB)	<75dB	
Operating Altitude	3,000m	
Cooling Method	Intelligent air cooling	
Fire Extinguishing System	FM200/NOVEC1230	
Display	Touch LCD display+cloud platform	
EMS Communication	RS485，TCP/IP	
Corrosion Protection Grade	C5	



5kWh-10MWh
Project capacity

ALL-SCENARIO ESS SOLUTIONS

PV-Storage System, PV-Storage-Diesel Hybrid System, Smart Microgrid, Peak Shaving & Valley Filling etc.



Office Buildings



Hospitals



Shopping Malls



Off-grid Resort



Data Center



Heavy Industry



Farms



Charging Station



Mine And Field Operation Base



Cold Storage



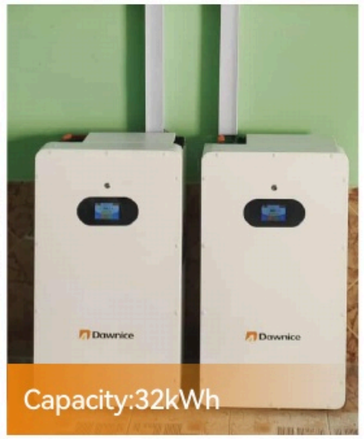
Greenhouse



5G Communication Base Station

RESIDENTIAL CASES

Middle East



Poland



Cuba



Mali



Poland



Liberia



Malaysia



Vietnam



Middle East



USA



Puerto Rico



Thailand



U.K.



Mali



C&I PROJECT CASES

Netherlands



Vietnam



Ireland



Germany



Nigeria



Netherlands



Zambia



Kenya



Vietnam



Uzbekistan



Romania



Middle East



Finland

