



OFFICIAL



LEADING-INNOVATION

PV & ENERGY STORAGE SOLUTION PROVIDER



Add: No. 1 YaoYuan Road, Luyang District, Hefei City, Anhui Province, China

Website: en.dahsolar.com E-mail: info@dahsolar.com





DAH SOLAR COMPANY PROFILE

—

2000+

Number of Staffs

300+

R&D Employees

20GW

Capacity

200+

Global Patents

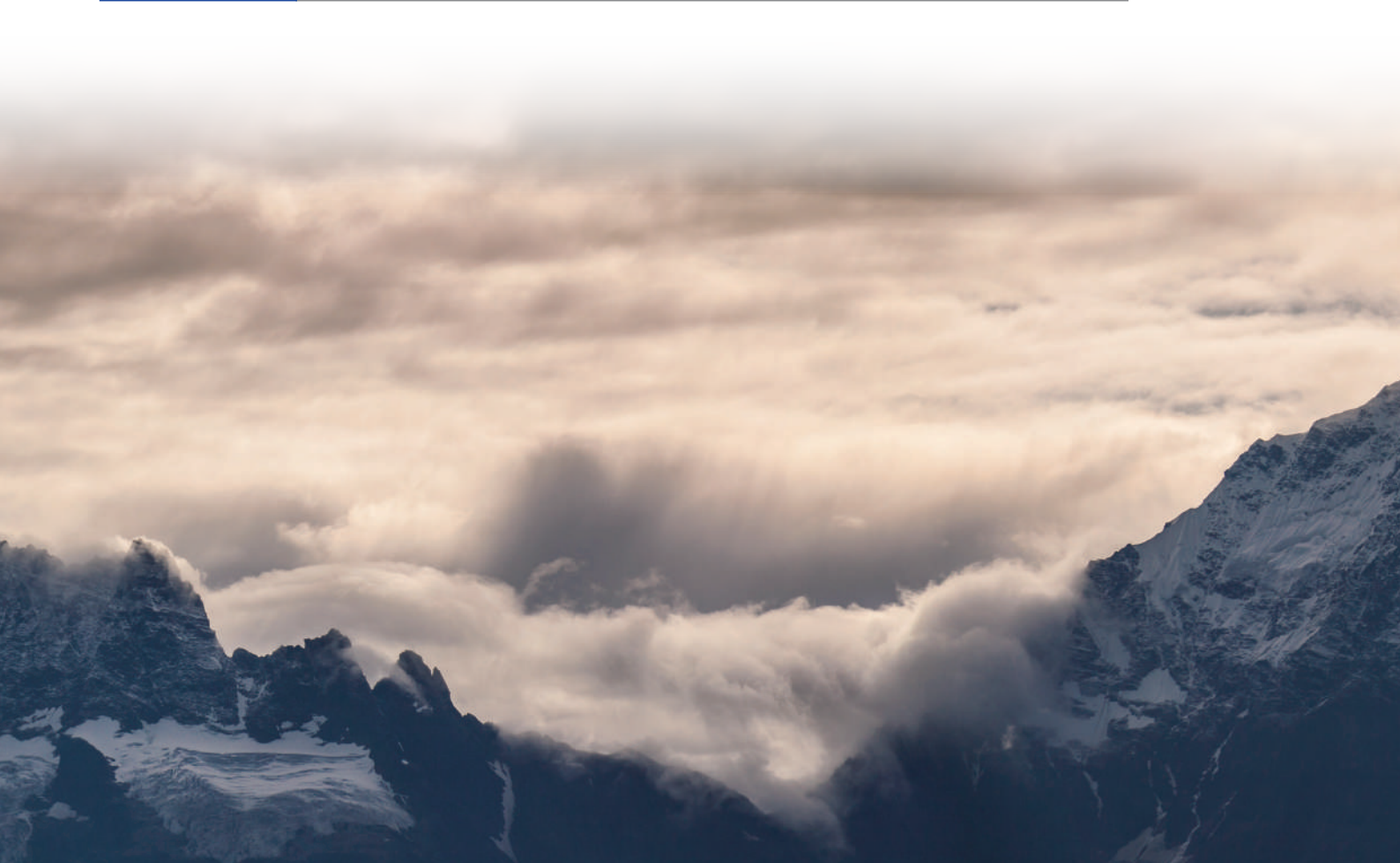
DAH New Energy Technology Co., Ltd is a subsidiary of DAH Solar Co., Ltd, regards innovation as the core driving force for development. Focusing on the research and development of core products such as inverters, energy storage systems, and intergrated PV system.

DAH New Energy Technology Co., Ltd committed to providing complete PV & ESS solutions for residential & commercial PV station. Products including the world's first intergrated PV system - SolarUnit 800W-2000W, applied to balcony, rooftop, and distribution systems below 1MW. Besides, energy storage system range from 2.5-15kWh, and hybrid inverter 3kW-12kW.

As a technology-oriented company, DAH New Energy has always been committing to research and develop new cutting edge technologies to provide efficiency and reliable products. For example, DAH hybrid inverter is equipped with intelligent energy management system, supports weak power grids, seamless switching, modular capacity expansion, and is compatible with microinverter and diesel generator.

MILESTONES

2015	DAH Solar officially enters industry the photovoltaic
2019	DAH New Energy is established
2021	The world's first integrated PV system - SolarUnit
2024	On market: Lithium battery; the new-generation SolarUnit
2025	Hybrid inverter; Micro inverter&storage integrated system



INNOVATION PRODUCT

- The World's First Integrated PV System - SolarUnit 800W~2kW
 - ✓ Modular design of solar system, convenient installation, lower BOS cost
 - ✓ Each unit operates independently, unrestricted installation angle, more capacity on complex roofs
 - ✓ Integrated system solution, perfect match between module and microinverter, higher system efficiency
 - ✓ Module-level MPPT, greatly improves power generation of PV system
 - ✓ Global patented Full-Screen PV Module, decreases 6-15% power loss caused by dust accumulation
 - ✓ Innovative contravariant scheme due to perfect match with low current module, peak efficiency above 97.16%
 - ✓ The latest semiconductor technology, higher conversion efficiency, smaller inverter size, less consumption
 - ✓ Lower risk of arcing due to lower system current, greatly reduces safety hazards
 - ✓ Remote monitoring and rapid shutdown through smart cloud platform

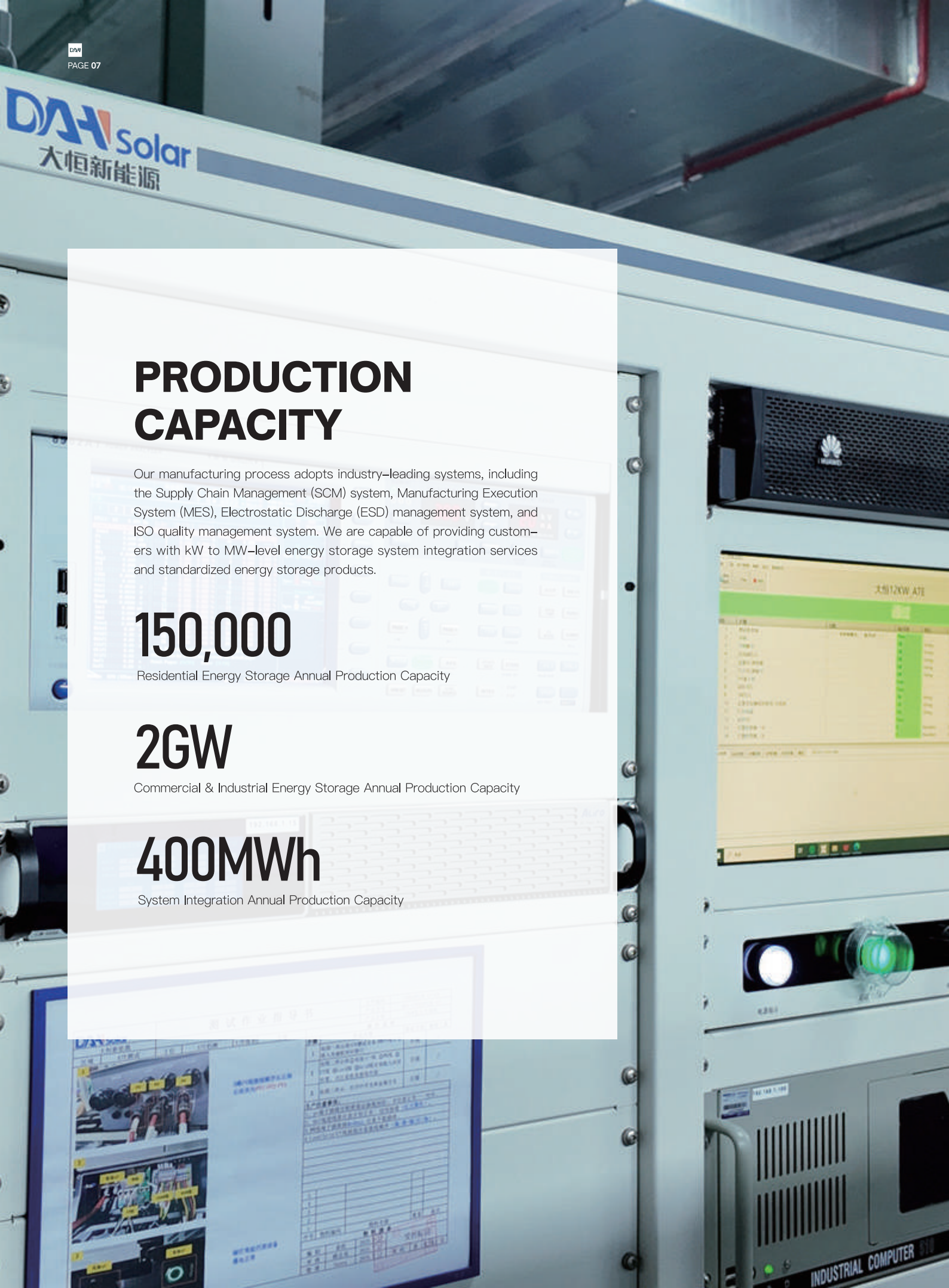


CERTIFICATION OF PRODUCT QUALITY



The products have obtained market access certifications such as TÜV, CQC, CE, UL, MCS, JEP, and KS, and have passed differentiated tests including salt spray, ammonia, sand and dust, PID, 3 times IEC standards, and panfle. It also holds accredited certifications such as the French Carbon Footprint and PVEL. Certified to ISO 9001, ISO 14001, ISO 45001, and other management system standards.

The Full-Screen PV Module holds multiple patent certifications in 18 countries worldwide, including Brazil, the United Kingdom, Türkiye, Germany, Japan, South Korea, and Australia, covering various aspects such as design, material application, and manufacturing processes.



PRODUCTION CAPACITY

Our manufacturing process adopts industry-leading systems, including the Supply Chain Management (SCM) system, Manufacturing Execution System (MES), Electrostatic Discharge (ESD) management system, and ISO quality management system. We are capable of providing customers with kW to MW-level energy storage system integration services and standardized energy storage products.

150,000

Residential Energy Storage Annual Production Capacity

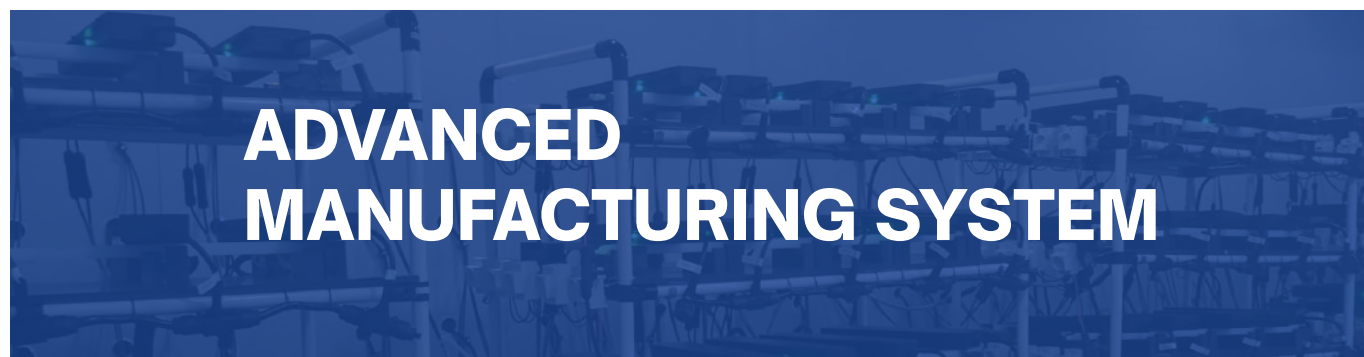
2GW

Commercial & Industrial Energy Storage Annual Production Capacity

400MWh

System Integration Annual Production Capacity





WORLD-CLASS COMPONENTS SUPPLIERS

- DAH New Energy chooses world-class suppliers to ensure high quality

GaN, IGBT

transphorm



IC



Capacitor, Inductor, Diode

nichicon



Relay, FAN



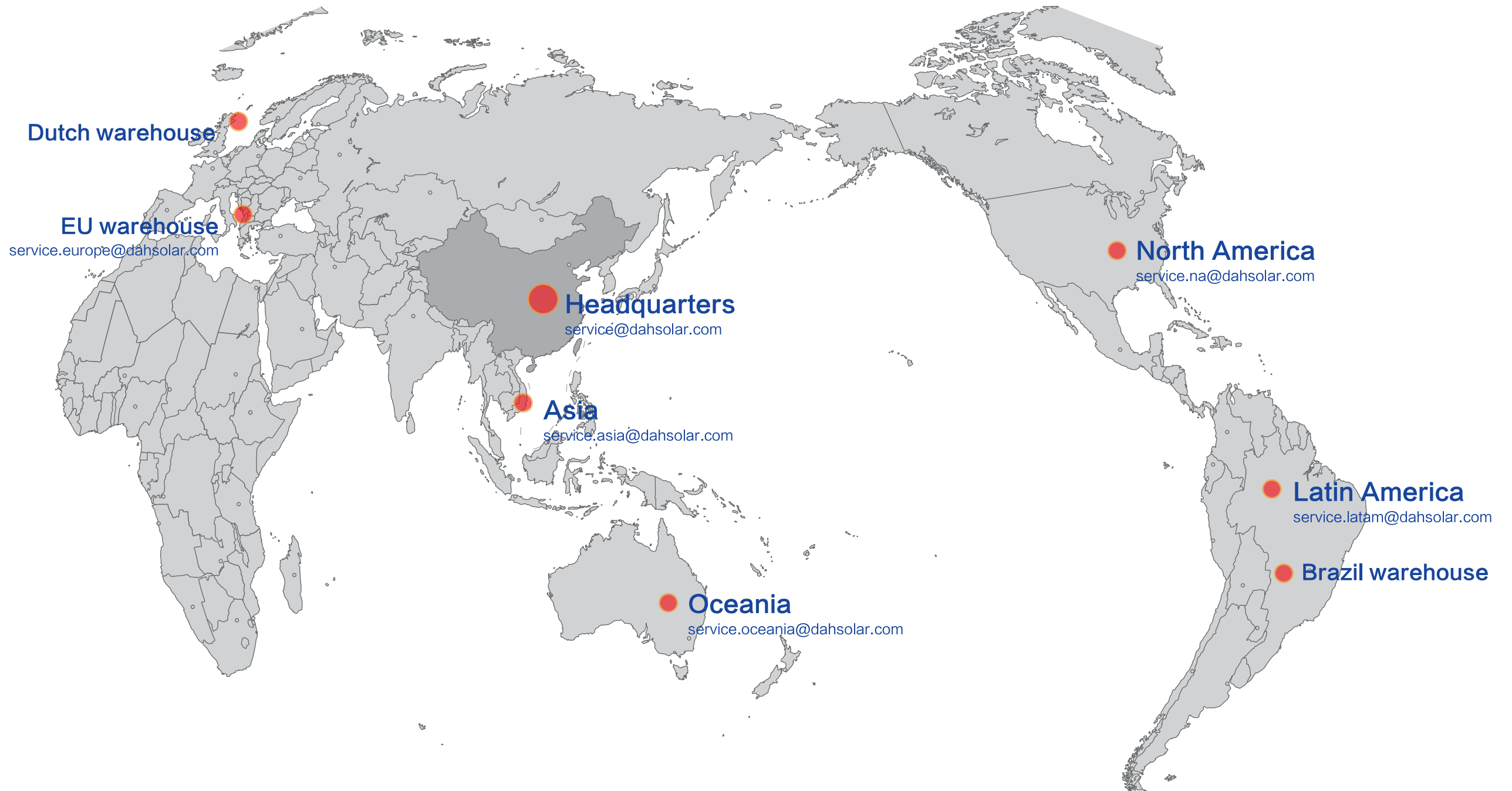
SERVICE CAPABILITY

The Technical Support Service Center is divided into 7 regional departments.
Additionally, DAH Solar focuses on supporting local distributor partners in providing comprehensive technical support and timely response services to customers.

✓ Integrated Online–Offline Services	✓ Spare Parts Support Services	✓ Quick Response Service	✓ Engineering Team Strengths
Online multi-channel instant procurement (Zoho/WeChat/WhatsApp). Offline 7x12 paid on-site support.	Sales orders include proportional spare parts dispatched with goods. Parts warehouses in Europe, Latin America, and China enable rapid allocation.	A graded fault response mechanism ensures 7x12 rapid troubleshooting and issue escalation.	Core members hail from leading enterprises such as Sungrow Power and Huawei, bringing extensive experience and comprehensive technical expertise to deliver professional and reliable services.

7-12h
Timely Response

3 Days
On-site Service
by Appointment



CORE ADVANTAGE

• Hybrid Inverter 3~12kW

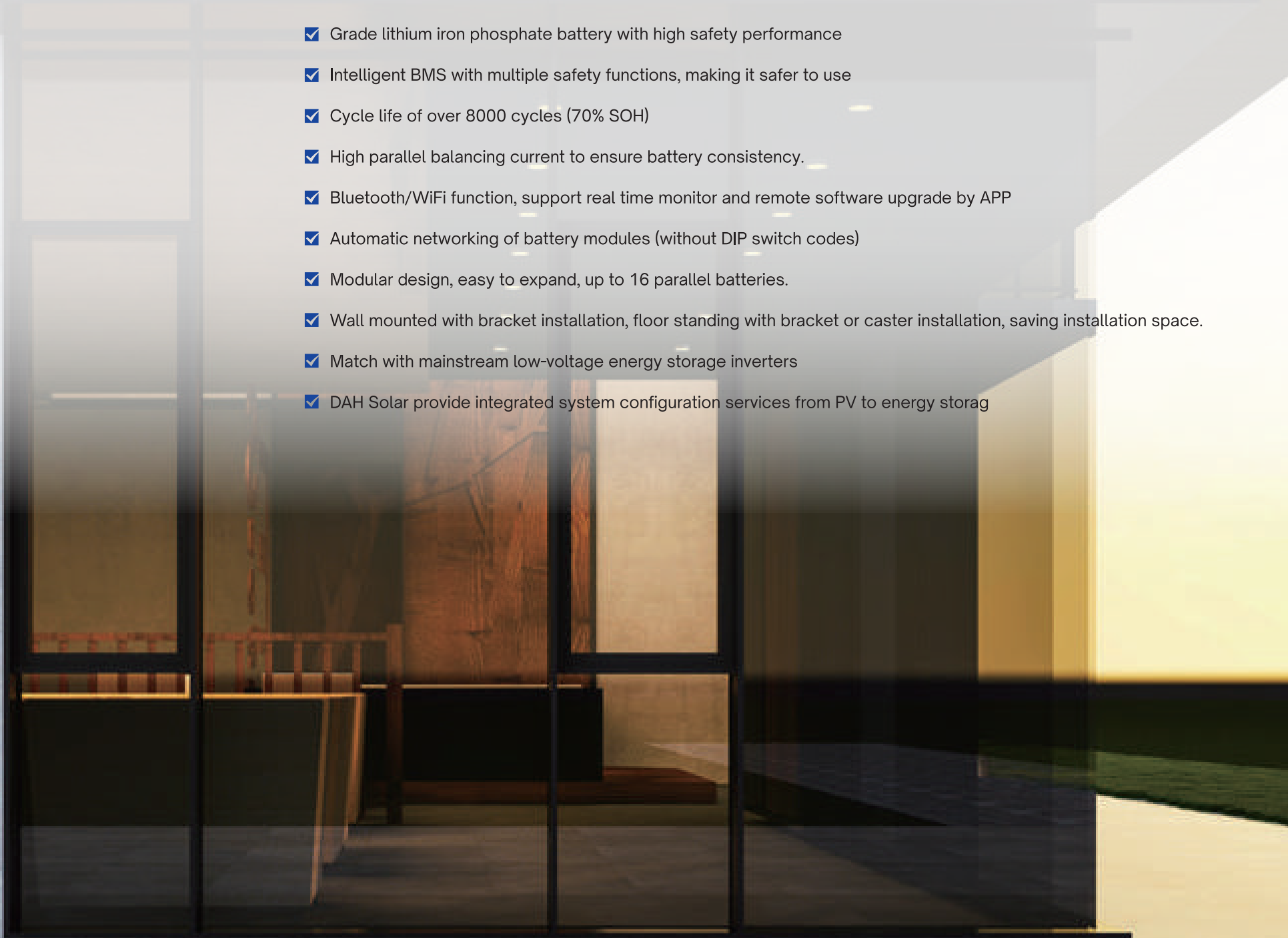
- ✓ Intelligent AI - DC Arc fault protection
- ✓ Supports 2 times overload in short-time
- ✓ IP65 protection degree
- ✓ Compatible with diesel generators
- ✓ AC couple to retroft existing solar system
- ✓ Max. 16 pcs parallel for on&off-grid operation, support multiple batteries parallel
- ✓ 4ms backup power switching
- ✓ Colored LCD touchscreen for intuitive setup & real-time monitoring
- ✓ Supports 1.6 times DC overloading
- ✓ 97.6% maximum conversion efficiency & 95% maximum charging efficiency



CORE TECHNOLOGY

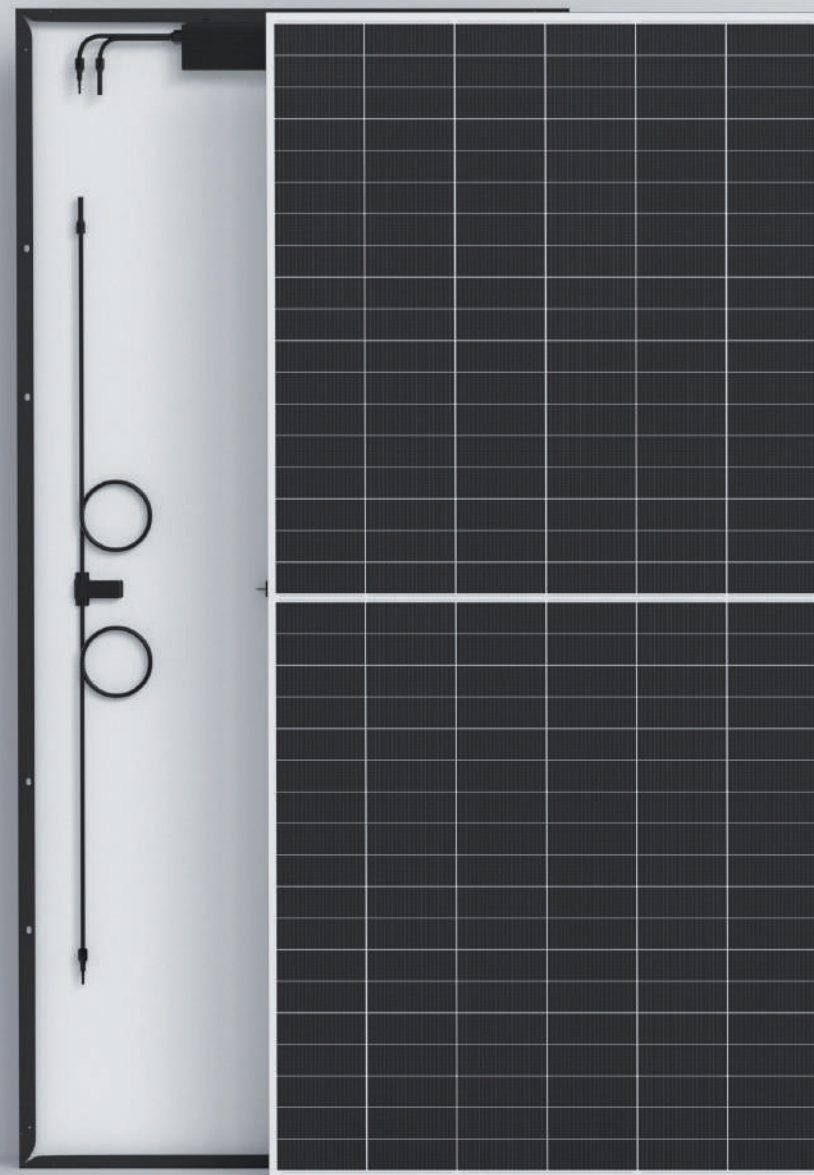
• Battery 2.5~15kWh

- ✓ Grade lithium iron phosphate battery with high safety performance
- ✓ Intelligent BMS with multiple safety functions, making it safer to use
- ✓ Cycle life of over 8000 cycles (70% SOH)
- ✓ High parallel balancing current to ensure battery consistency.
- ✓ Bluetooth/WiFi function, support real time monitor and remote software upgrade by APP
- ✓ Automatic networking of battery modules (without DIP switch codes)
- ✓ Modular design, easy to expand, up to 16 parallel batteries.
- ✓ Wall mounted with bracket installation, floor standing with bracket or caster installation, saving installation space.
- ✓ Match with mainstream low-voltage energy storage inverters
- ✓ DAH Solar provide integrated system configuration services from PV to energy storag



DAH NEW ENERGY PRODUCT LINE

- PV & Energy Storage Solution Provider



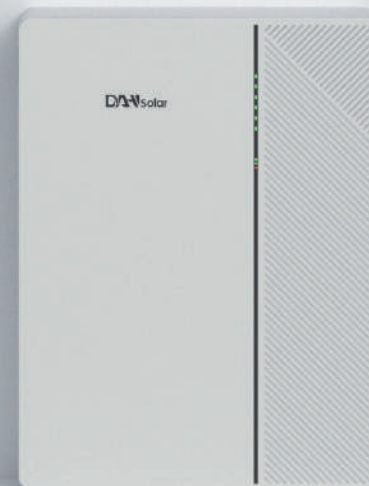
Integrated PV System - SolarUnit
(800W~2kW)



1-phase Hybrid Inverter
(3kW~8kW)



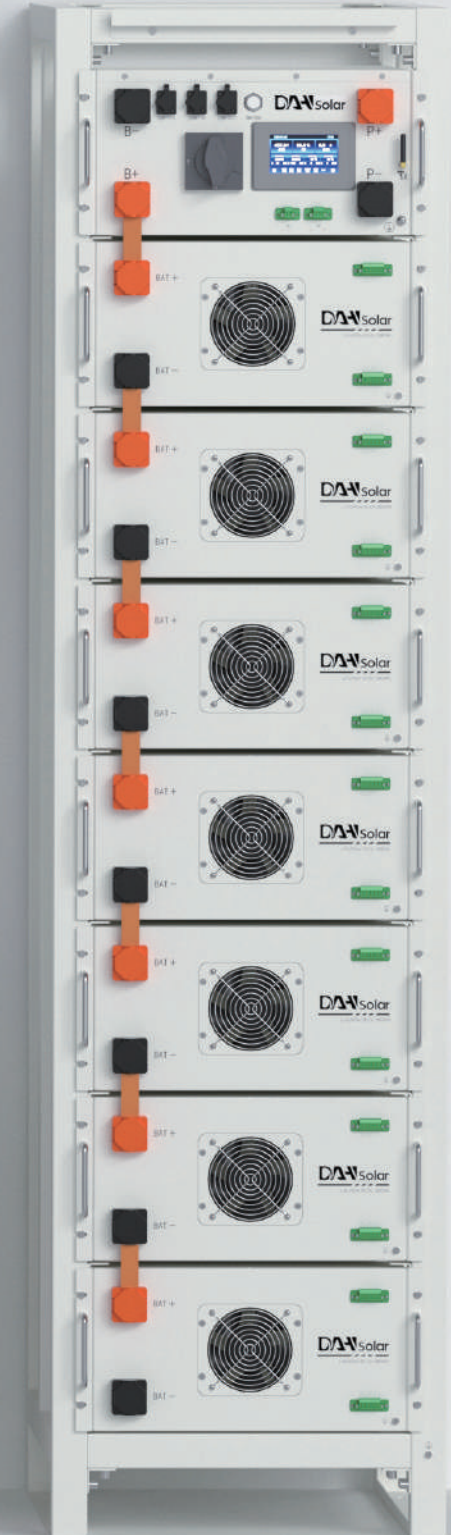
3-phase Hybrid Inverter
(8kW~12kW)



Lithium-ion Battery
(2.5kWh~15kWh)



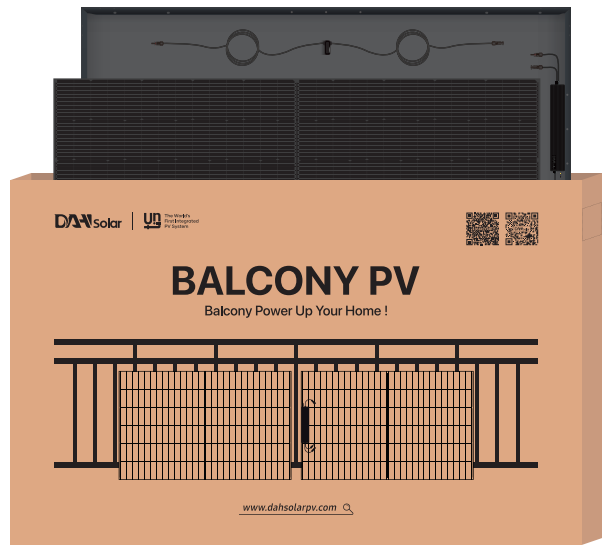
Storage Battery
(2.5kWh~15kWh)



SolarUnit All-in-one Integrated Packaging

DAH-SU800D +

The World's First Integrated PV System



Product Packaging Diagram



Integrated System Design

- Modular design of solar system, convenient installation, lower BOS cost
- Each unit operates independently, unrestricted installation angle, more capacity on complex roofs



High System Generation

- Integrated system solution, perfect match between module and microinverter, higher system efficiency
- Module-level MPPT, greatly improves power generation of PV system



Innovative Module Technology

- Low current module with 1/3 cut solar cells, less heat loss, better low light performance, system generation increased by around 3%
- Global patented Full-Screen PV Module, decreases 6-15% power loss caused by dust accumulation



Leading Microinverter Technology

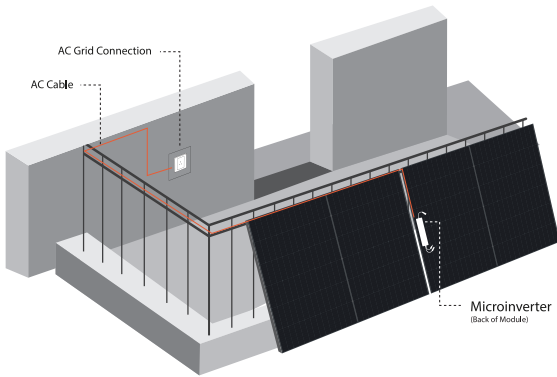
- Innovative contravariant scheme due to perfect match with low current module, peak efficiency above 97.16%
- The latest semiconductor technology, higher conversion efficiency, smaller inverter size, less consumption



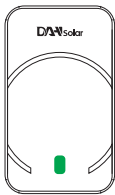
Improved Safety Assurance

- Lower risk of arcing due to lower system current, greatly reduces safety hazards
- Remote monitoring and rapid shutdown through smart cloud platform

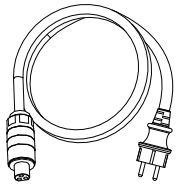
System Configuration



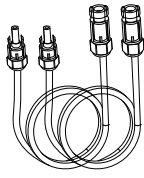
System



DTU



AC Bus



DC Cable
(optional)

Accessories

Configuration list

SYSTEM LAYOUT

	DAH-SU800D	
Recommended PV Module Power (STC) Range	420W×2 (PERC)	440W×2 (N-TOPCon)
AC Bus Cable Current-Carrying	8A/1pcs	8A/1pcs

UNIT DATA

Max. Output Power	800VA	800VA
Grid Voltage	220V/230V (180V~270V), L+N+PE	220V/230V (180V~270V), L+N+PE
Nominal Frequency/Range	50Hz (45~55Hz), 60Hz (55~65Hz)	50Hz (45~55Hz), 60Hz (55~65Hz)
Max Output Current	4.0A	4.0A
Power Factor (Default/Adjustable)	0.9 Leading...0.9 Lagging	0.9 Leading...0.9 Lagging
Output Current Total Harmonic Distortion	< 2%	< 2%
Peak Efficiency	97.16%	97.16%
CEC Weighted Efficiency	97.02%	97.02%
MPPT Efficiency	> 99.95%	> 99.95%
Night Power Consumption	0W	0W

FEATURES

Operating Ambient Temperature Range	-40°C ~ +65°C	-40°C ~ +65°C
Storage Temperature Range	-40°C ~ +85°C	-40°C ~ +85°C
Protection	IP65	IP65
Cooling	Natural Convection-No Fans	Natural Convection-No Fans
Microinverter Size (H x W x D)	412mm×99mm×43mm	412mm×99mm×43mm
Microinverter Weight	2.0kg	2.0kg
System Size (H x W x D)	1766×1132×32mm (×2)	1766×1132×32mm (×2)
System Weight	47kg	47kg
Noise	< 10dB	< 10dB
Communication	Wi-Fi/PLC	Wi-Fi/PLC
Operational Platform	DAH Smart Cloud Platform	DAH Smart Cloud Platform
System Integration	Integration of System and Module	Integration of System and Module
PV Module Warranty	25 years for Mateial&Technology / 30 years for Linear Power Output	
Inverter Warranty	12 years	12 years
Grid-connected Certification	TOR Erzeuger Typ A V1.2	TOR Erzeuger Typ A V1.2
	VDE AR-N 4105-2018-11	VDE AR-N 4105-2018-11
	EN 50549-1:2019+PPDS	EN 50549-1:2019+PPDS
Safety Certification	IEC/EN 62109-1/2	IEC/EN 62109-1/2
EMC Certification	IEC/EN 61000-6-1/-2/-3/-4	IEC/EN 61000-6-1/-2/-3/-4
	IEC/EN 61000-3-2/-3	IEC/EN 61000-3-2/-3

E-mail: sales@dh-solar.cn

Add: No.1 Yaoyuan Road, Luyang District, Hefei City, Anhui Province, China

en.dahsolar.com



SolarUnit — DAH-SU1KBD

(1 Microinverter with 2 Modules)

The World's First Integrated PV System



Innovative Integrated System for Faster Installation

- Integrated system with factory pre-installed microinverters, design-free, more convenient installation, more labor-saving.
- Each unit operates independently without installation angle restriction, increasing the installed capacity on complex roofs.



Unique System Solution for Higher Power Generation

- Perfect matching of modules and microinverters, higher system powergeneration efficiency.
- Innovative solution, peak conversion efficiency of 97.19% with the third generation semiconductor GAN technology, smaller size.
- Combines the cost-effective advantages of string microinverters and the traditional microinverters in safety, flexibility and high electricity generation.



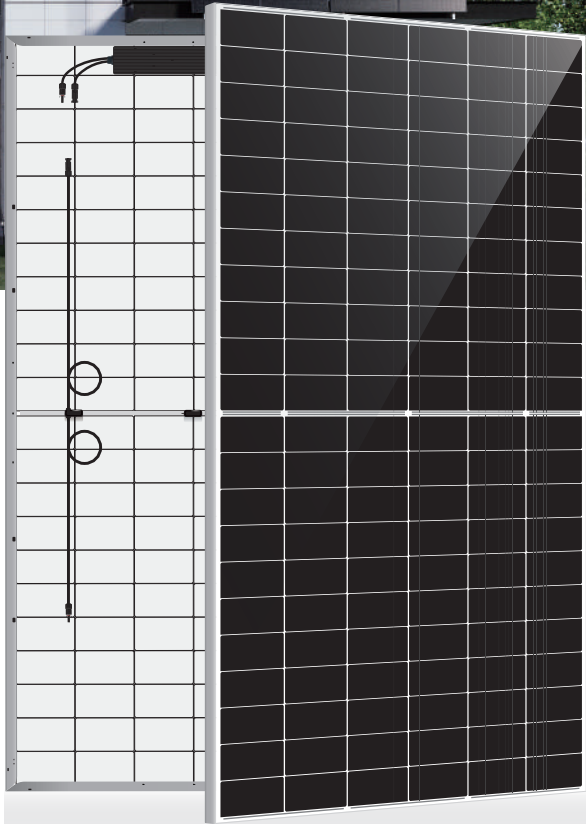
AFCI Arc Fault Detection for Safety and Security

- Equipped with AFCI arc fault detection shutdown function, accurately identifying potential arc faults to ensure the safety of the system application.
- Remote monitoring and quick shutdown through intelligent cloud platform.



Full-Screen Technology, More Power Generation

- Global patented Full-Screen Module prevents dust accumulation, reduces power generation loss caused by dust accumulation compared to traditional modules, increases power generation by 6-15%.
- No frame blocking on the front side of the module, cleaner from rainwater, lower operation and maintenance costs.



Microinverter
Pre-installed

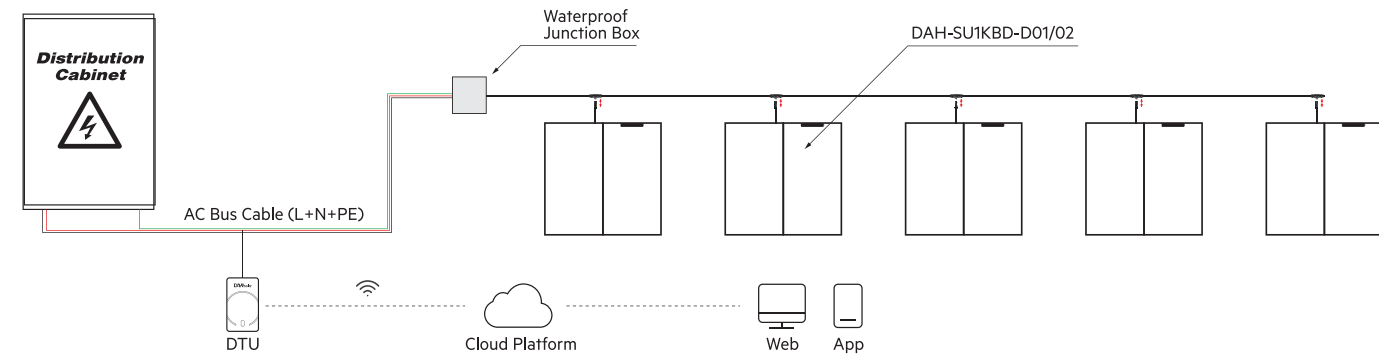


Innovative Design
Microinverter



Full-Screen
PV Module

System Application



Configuration List

SYSTEM LAYOUT

	DAH-SU1KBD-D01	DAH-SU1KBD-D02
Adapted PV Module Power	610W×2	620W×2

DC INPUT

Maximum Input Voltage	420V
MPPT Voltage Range	70~340V
Maximum Input Current	7.5A
Start-up Voltage (Operating Voltage Range)	50V (0~470V)

AC OUTPUT

Rated Output Power	1000VA
Nominal Output Voltage/Range*	220/230V (180~270V)
Nominal Frequency/Range*	50Hz (45~55Hz), 60Hz (55~65Hz)
Maximum Output Current	4.55A/4.35A
Power Factor (Default/Adjustable)	> 0.99 (0.9 leading...0.9 lagging)
Total Harmonic Distortion	<2%
Maximum Units Per Branch (12AWG Cable)**	5 Units
Maximum Units Per Branch (10AWG Cable)**	7 Units

EFFICIENCY

Peak Efficiency	97.19%
European Efficiency	94.35%
Static MPPT Efficiency	>99.9%
Night Power Consumption	0W

BASIC PARAMETERS

Ambient Temperature Range	-40°C~+70°C
Storage Temperature Range	-40°C~+85°C
Protection Level	IP67
Cooling	Natural Cooling
Inverter Size (W×H×D)	420×112×44mm
Inverter Weight	3.5kg
Module Size (L×W×T)	2382×1134×32mm(×2)
System Weight	68.1kg
Noise	<10dB
Communication	Wi-Fi/PLC
Operational Platform	DAH Smart Cloud Platform
System Integration	Integration of System and Module
PV Module Warranty	25 years for Mateial&Technology / 30 years for Linear Power Output
Inverter Warranty	12 years
Certifications of Inverter	Ordinace No.515; IEC/EN 62109-1/-2; IEC/EN 61000-6-1/-3

Certifications of PV Module	IEC 61215; IEC 61730; CE; INMETRO ISO 45001 2018; ISO 14001 2015; ISO 9001 2015
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Note: * The rated voltage/frequency range can be changed according to the requirements of the local power authority.
** Refer to local electrical code requirements to determine the number of microinverters that can be connected to each branch.



SolarUnit —
DAH-SU1K5BD
(1 Microinverter with 3 Modules)
The World's First Integrated PV System



Innovative Integrated System for Faster Installation

- Integrated system with factory pre-installed microinverters, design-free, more convenient installation, more labor-saving.
- Each unit operates independently without installation angle restriction, increasing the installed capacity on complex roofs.



Unique System Solution for Higher Power Generation

- Perfect matching of modules and microinverters, higher system powergeneration efficiency.
- Innovative solution, peak conversion efficiency of 97.61% with the third generation semiconductor GAN technology, smaller size.
- Combines the cost-effective advantages of string microinverters and the traditional microinverters in safety, flexibility and high electricity generation.



AFCI Arc Fault Detection for Safety and Security

- Equipped with AFCI arc fault detection shutdown function, accurately identifying potential arc faults to ensure the safety of the system application.
- Remote monitoring and quick shutdown through intelligent cloud platform.



Full-Screen Technology, More Power Generation

- Global patented Full-Screen Module prevents dust accumulation, reduces power generation loss caused by dust accumulation compared to traditional modules, increases power generation by 6-15%.
- No frame blocking on the front side of the module, cleaner from rainwater, lower operation and maintenance costs.



Microinverter
Pre-installed

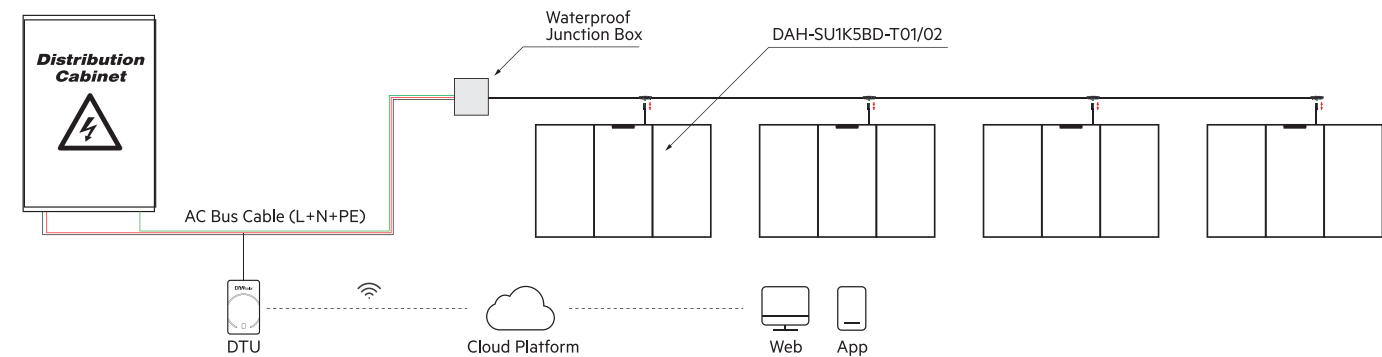


Innovative Design
Microinverter



Full-Screen
PV Module

System Application



Configuration List

SYSTEM LAYOUT

	DAH-SU1K5BD-T01	DAH-SU1K5BD-T02
Adapted PV Module Power	610W×3	620W×3

DC INPUT

Maximum Input Voltage	470V
MPPT Voltage Range	70~400V
Maximum Input Current	7.5A
Start-up Voltage (Operating Voltage Range)	50V (0~470V)

AC OUTPUT

Rated Output Power	1500VA
Nominal Output Voltage/Range*	220/230V (180~270V)
Nominal Frequency/Range*	50Hz (45~55Hz), 60Hz (55~65Hz)
Maximum Output Current	6.82A/6.52A
Power Factor (Default/Adjustable)	> 0.99 (0.9 leading...0.9 lagging)
Total Harmonic Distortion	<2%
Maximum Units Per Branch (12AWG Cable)**	3 Units
Maximum Units Per Branch (10AWG Cable)**	4 Units

EFFICIENCY

Peak Efficiency	97.61%
European Efficiency	96.02%
Static MPPT Efficiency	>99.9%
Night Power Consumption	0W

BASIC PARAMETERS

Ambient Temperature Range	-40°C~+70°C
Storage Temperature Range	-40°C~+85°C
Protection Level	IP67
Cooling	Natural Cooling
Inverter Size (W×H×D)	420×112×44mm
Inverter Weight	3.7kg
Module Size (L×W×T)	2382×1134×32mm(×3)
System Weight	100.6kg
Noise	<10dB
Communication	Wi-Fi/PLC
Operational Platform	DAH Smart Cloud Platform
System Integration	Integration of System and Module
PV Module Warranty	25 years for Mateial&Technology / 30 years for Linear Power Output
Inverter Warranty	12 years
Certifications of Inverter	Ordinace No.515; IEC/EN 62109-1/-2; IEC/EN 61000-6-1/-3

Certifications of PV Module
IEC 61215; IEC 61730; CE; INMETRO
ISO 45001 2018; ISO 14001 2015; ISO 9001 2015

Note: * The rated voltage/frequency range can be changed according to the requirements of the local power authority.
** Refer to local electrical code requirements to determine the number of microinverters that can be connected to each branch.



SolarUnit — DAH-SU2KBD

(1 Microinverter with 4 Modules)

The World's First Integrated PV System



Innovative Integrated System for Faster Installation

- Integrated system with factory pre-installed microinverters, design-free, more convenient installation, more labor-saving.
- Each unit operates independently without installation angle restriction, increasing the installed capacity on complex roofs.



Unique System Solution for Higher Power Generation

- Perfect matching of modules and microinverters, higher system powergeneration efficiency.
- Innovative solution, peak conversion efficiency of 97.6% with the third generation semiconductor GAN technology, smaller size.
- Combines the cost-effective advantages of string microinverters and the traditional microinverters in safety, flexibility and high electricity generation.



AFCI Arc Fault Detection for Safety and Security

- Equipped with AFCI arc fault detection shutdown function, accurately identifying potential arc faults to ensure the safety of the system application.
- Remote monitoring and quick shutdown through intelligent cloud platform.



Full-Screen Technology, More Power Generation

- Global patented Full-Screen Module prevents dust accumulation, reduces power generation loss caused by dust accumulation compared to traditional modules, increases power generation by 6-15%.
- No frame blocking on the front side of the module, cleaner from rainwater, lower operation and maintenance costs.



Microinverter
Pre-installed

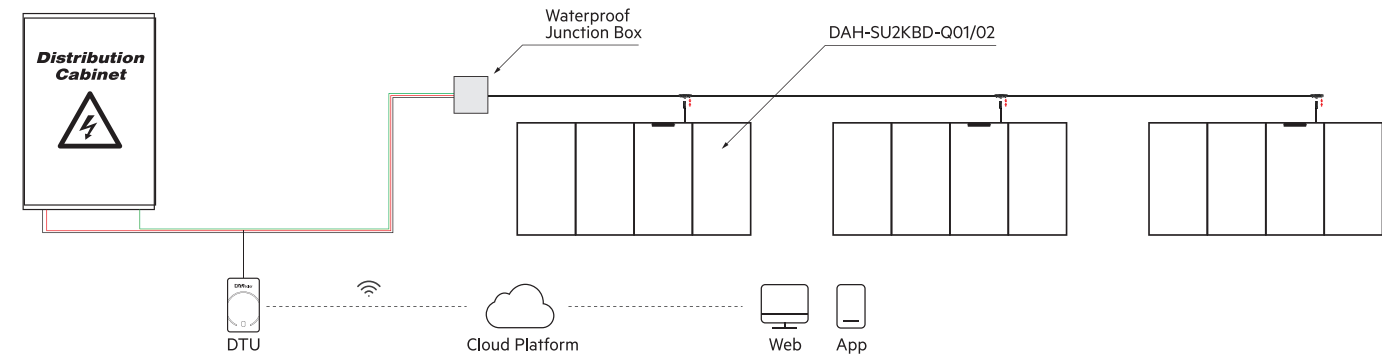


Innovative Design
Microinverter



Full-Screen
PV Module

System Application



Configuration List

SYSTEM LAYOUT	DAH-SU2KBD-Q01	DAH-SU2KBD-Q02
Adapted PV Module Power	610W×4	620W×4
DC INPUT		
Maximum Input Voltage	470V	
MPPT Voltage Range	70~400V	
Maximum Input Current	7.5A	
Start-up Voltage (Operating Voltage Range)	50V (0-470V)	
AC OUTPUT		
Rated Output Power	2000VA	
Nominal Output Voltage/Range*	220/230V (180~270V)	
Nominal Frequency/Range*	50Hz (45~55Hz), 60Hz (55~65Hz)	
Maximum Output Current	9.09/8.70A	
Power Factor (Default/Adjustable)	> 0.99 (0.9 leading...0.9 lagging)	
Total Harmonic Distortion	<2%	
Maximum Units Per Branch (12AWG Cable)**	2 Units	
Maximum Units Per Branch (10AWG Cable)**	3 Units	
EFFICIENCY		
Peak Efficiency	97.60%	
European Efficiency	96.94%	
Static MPPT Efficiency	>99.9%	
Night Power Consumption	0W	
BASIC PARAMETERS		
Ambient Temperature Range	-40°C~-70°C	
Storage Temperature Range	-40°C~+85°C	
Protection Level	IP67	
Cooling	Natural cooling	
Inverter Size (W×H×D)	420×112×44mm	
Inverter Weight	3.7kg	
Module Size (L×W×T)	2382×1134×32mm(×4)	
System Weight	132.9kg	
Noise	<10dB	
Communication	Wi-Fi/PLC	
Operational Platform	DAH Smart Cloud Platform	
System Integration	Integration of System and Module	
PV Module Warranty	25 years for Mateial&Technology / 30 years for Linear Power Output	
Inverter Warranty	12 years	
Certifications of Inverter	Ordinance No.515; IEC/EN 62109-1/-2; IEC/EN 61000-6-1/-3	
Certifications of PV Module	IEC 61215; IEC 61730; CE; INMETRO	
	ISO 45001 2018; ISO 14001 2015; ISO 9001 2015	

Note: * The rated voltage/frequency range can be changed according to the requirements of the local power authority.
** Refer to local electrical code requirements to determine the number of microinverters that can be connected to each branch.



DHN-LVWES05-G1

Rechargeable Lithium Iron Battery

The DHN-LVWES series product is a low-voltage energy storage battery designed to provide efficient and reliable energy storage solutions for households, businesses, and specific occasions. Adopting top tier brand lithium iron phosphate battery cells, with high safety, stability, energy density, and long cycle life. Built in efficient intelligent battery management system(BMS), comprehensively monitoring and controlling the battery energy storage system to ensure its safe, stable and high-performance operation.

- **Safe**
- A-grade lithium iron phosphate battery with high safety performance.
 - Intelligent BMS with multiple safety functions, making it safer to use.
 - Fire Protection System: Optional pre-setting fire extinguisher.

- **Long Life-time**
- Cycle life of over 6000 cycles (70% SOH).
 - High parallel balancing current to ensure battery consistency.

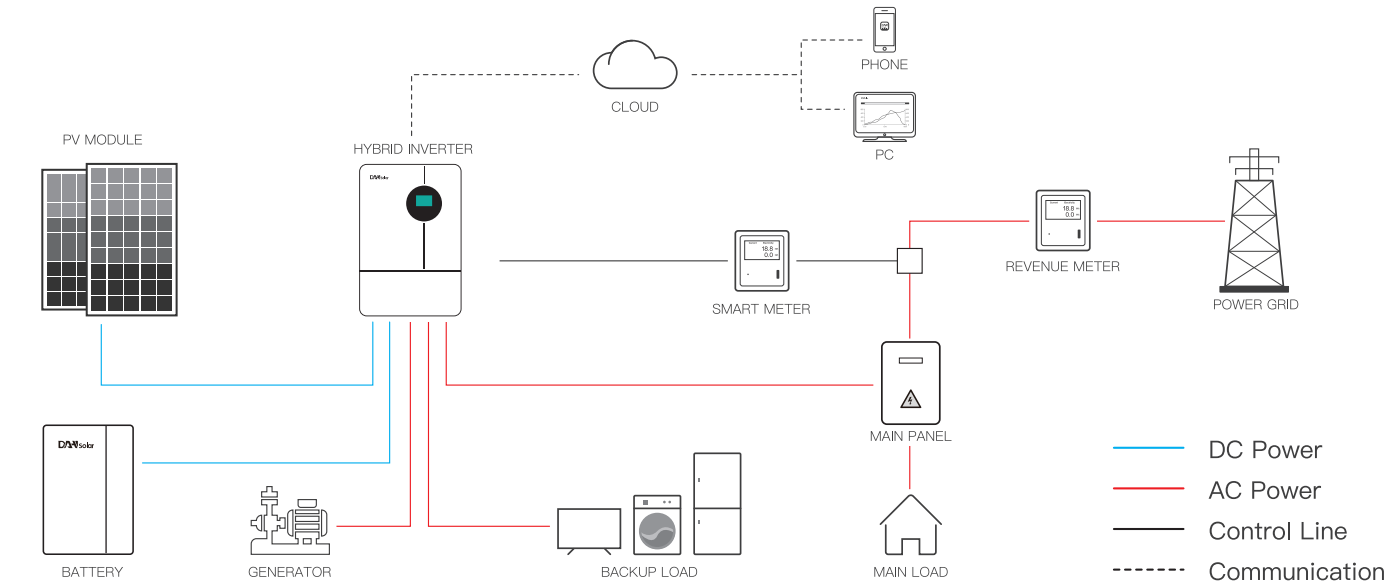
- **Convenient & Smart**
- Bluetooth/WiFi function, support real time monitor and remote software upgrade by APP
 - Support Bluetooth/WiFi inverter protocol configuration function, quickly set-up and easy to operate
 - Automatic networking of battery modules, easy to maintain.

- **Flexible**
- Small size, high power density, Suitable for installation scenarios with limited space.
 - The unique dual-positive and dual-negative terminal design allows direct stacking and parallel connection without the need for additional busbars, saving costs and installation space.
 - Match with mainstream low-voltage energy storage inverters.

- **One-stop Service**
- DAH Solar provide integrated system configuration services from PV to energy storage.

TECHNICAL PARAMETER

System Application



Technical Data

Model	DHN-LVWES05-G1
Main Parameter	
Battery Type	LiFePO4
Battery Rated Energy (kWh)	5.12
Battery Rated Capacity (Ah)	100
Scalability	Parallel connection of up to 16 units
Nominal Voltage (V)	51.2
Operating Voltage(V)	43.2~58.4
Charge/Discharge Current (A)–Recommend	50
Charge/Discharge Current (A)–Max.	100
Other Parameter	
Recommend Depth of Discharge(%)	≤90
System Dimension (W/H/D, mm)	480×500×155
System Weight (kg)	47
Master LED Indicator	6LED (SOC:16.6%~100%), 3LED (ON/OFF,RUN,ALARM)
IP Rating of Enclosure	IP20
Operating Temperature(°C)	Charge:0~+60/Discharge:–20~+60
Storage Temperature(°C)	–20~+35
Cycle Life (25±2°C,0.5C/0.5C,70%EOL)	≥6000
Installation	Wall–Mounted/Floor–Mounted
Fire Prevention System	Prefabricated whole fluorine ketone fire extinguishing device (optional)
Communication Methods	CAN2.0/RS485
Warranty Period (years)	10
Certification	IEC62619–CB,CE,UN38.3
Compatible Inverters	SMA/VICTRON/SE/DEYE/SOLIS/GOODWE/GROWATT/ LUXPOWERTEK/SENERGY/SRD etc



DHN-LVWES10-G1

Rechargeable Lithium Iron Battery

The DHN-LVWES series product is a low-voltage energy storage battery designed to provide efficient and reliable energy storage solutions for households, businesses, and specific occasions. Adopting top tier brand lithium iron phosphate battery cells, with high safety, stability, energy density, and long cycle life. Built in efficient intelligent battery management system(BMS), comprehensively monitoring and controlling the battery energy storage system to ensure its safe, stable and high-performance operation.

- Safe**
- A-grade lithium iron phosphate battery with high safety performance.
 - Intelligent BMS with multiple safety functions, making it safer to use.
 - Fire Protection System: Optional pre-setting fire extinguisher.

- Long Life-time**
- Cycle life of over 6000 cycles (70% SOH).
 - High parallel balancing current to ensure battery consistency.

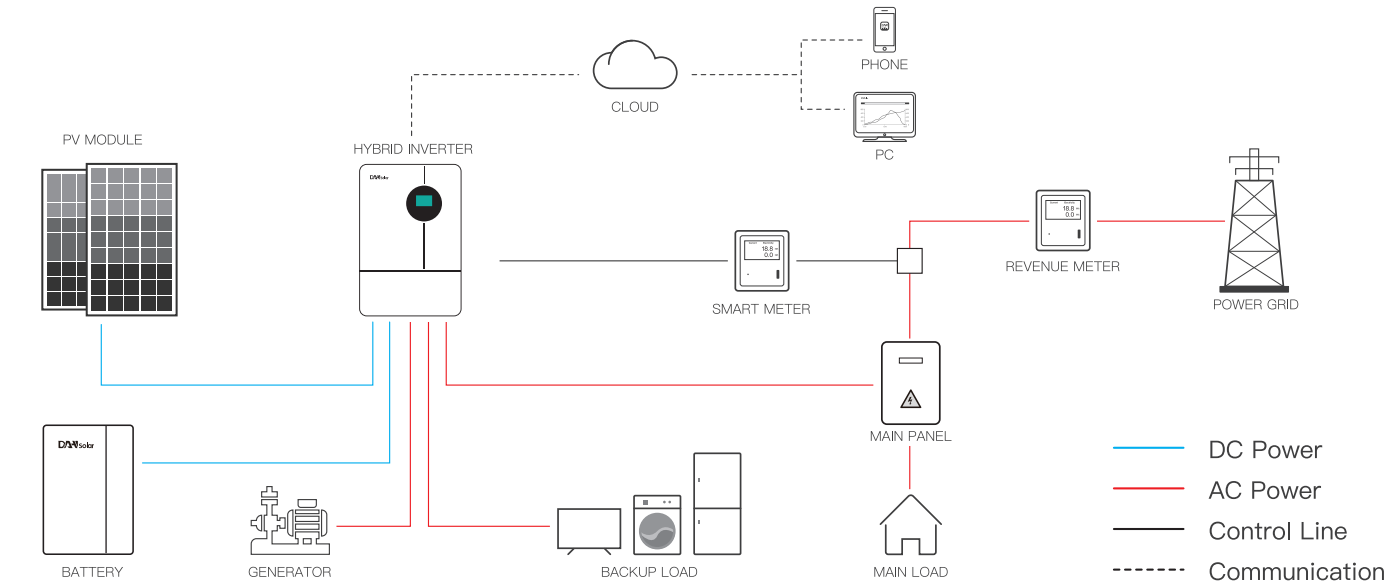
- Convenient & Smart**
- Bluetooth/WiFi function, support real time monitor and remote software upgrade by APP
 - Support Bluetooth/WiFi inverter protocol configuration function, quickly set-up and easy to operate
 - Automatic networking of battery modules, easy to maintain.

- Flexible**
- Modular design, easy to expand, up to 16 parallel batteries.
 - Small size, high power density.
 - Floor-standing or wall-mounted with bracket installation, saving installation space.
 - Match with mainstream low-voltage energy storage inverters.

- One-stop Service**
- DAH Solar provide integrated system configuration services from PV to energy storage.

TECHNICAL PARAMETER

System Application



Technical Data

Model	DHN-LVWES10-G1
Main Parameter	
Battery Type	LiFePO4
Battery Rated Energy (kWh)	10.24
Battery Rated Capacity (Ah)	200
Scalability	Parallel connection of up to 16 units
Nominal Voltage (V)	51.2
Operating Voltage(V)	43.2~58.4
Charge/Discharge Current (A)–Recommend	100
Charge/Discharge Current (A)–Max.	200
Other Parameter	
Recommend Depth of Discharge(%)	≤90
System Dimension (W/H/D, mm)	600×720×160
System Weight (kg)	87
Master LED Indicator	6LED (SOC:16.6%~100%), 3LED (ON/OFF,RUN,ALARM)
IP Rating of Enclosure	IP20
Operating Temperature(°C)	Charge:0~+60/Discharge:–20~+60
Storage Temperature(°C)	–20~+35
Cycle Life (25±2°C,0.5C/0.5C,70%EOL)	≥6000
Installation	Wall–Mounted/Floor–Mounted
Fire Prevention System	Prefabricated whole fluorine ketone fire extinguishing device (optional)
Communication Methods	CAN2.0/RS485
Warranty Period (years)	10
Certification	IEC62619–CB,CE,UN38.3
Compatible Inverters	SMA/VICTRON/SE/DEYE/SOLIS/GOODWE/GROWATT/ LUXPOWERTEK/SENERGY/SRD etc



DHN-LVWES15-G1

Rechargeable Lithium Iron Battery

The DHN-LVWES series product is a low-voltage energy storage battery designed to provide efficient and reliable energy storage solutions for households, businesses, and specific occasions. Adopting top tier brand lithium iron phosphate battery cells, with high safety, stability, energy density, and long cycle life. Built in efficient intelligent battery management system(BMS), comprehensively monitoring and controlling the battery energy storage system to ensure its safe, stable and high-performance operation.

- **Safe**
- A-grade lithium iron phosphate battery with high safety performance.
 - Intelligent BMS with multiple safety functions, making it safer to use.
 - Fire Protection System: Optional pre-setting fire extinguisher.

- **Long Life-time**
- Cycle life of over 8000 cycles (70% SOH).
 - High parallel balancing current to ensure battery consistency.

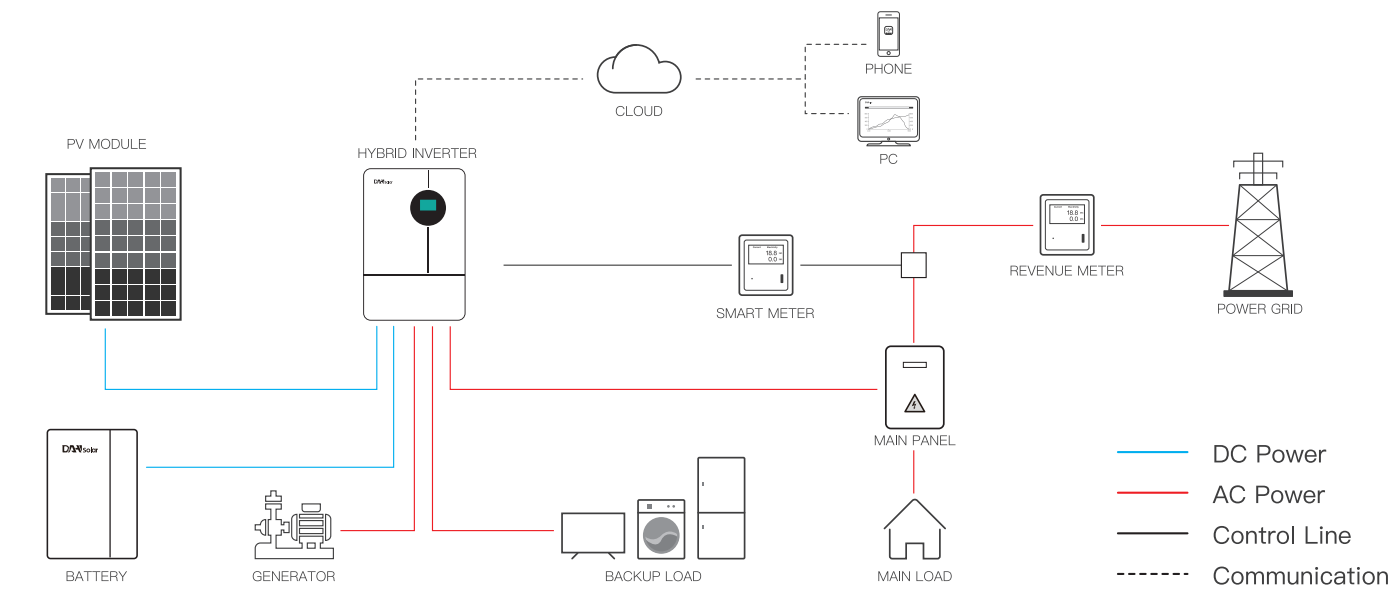
- **Convenient & Smart**
- Bluetooth/WiFi function, support real time monitor and remote software upgrade by APP
 - Support Bluetooth/WiFi inverter protocol configuration function, quickly set-up and easy to operate
 - Automatic networking of battery modules, easy to maintain.

- **Flexible**
- Modular design, easy to expand, up to 16 parallel batteries.
 - Small size, high power density.
 - Wall mounted with bracket installation, floor standing with bracket or caster installation, saving installation space.
 - Match with mainstream low-voltage energy storage inverters.

- **One-stop Service**
- DAH Solar provide integrated system configuration services from PV to energy storage.

TECHNICAL PARAMETER

System Application



Technical Data

Model	DHN-LVWES15-G1
Main Parameter	
Battery Type	LiFePO4
Battery Rated Energy (kWh)	14.34
Battery Rated Capacity (Ah)	280
Scalability	Parallel connection of up to 16 units
Nominal Voltage (V)	51.2
Operating Voltage(V)	43.2~57.6
Charge/Discharge Current (A)–Recommend	140
Charge/Discharge Current (A)–Max.	200
Other Parameter	
Recommend Depth of Discharge(%)	≤90
System Dimension (W/H/D, mm)	520×680×232
System Weight (kg)	114
Master LED Indicator	6LED (SOC:16.6%~100%), 3LED (ON/OFF,RUN,ALARM)
IP Rating of Enclosure	IP20
Operating Temperature(°C)	Charge:0~+55/Discharge:–20~+55
Storage Temperature(°C)	–20~+35
Cycle Life (25±2°C,0.5C/0.5C,70%EOL)	≥8000
Installation	Wall–Mounted/Floor–Mounted (optional wheel)
Fire Prevention System	Prefabricated whole fluorine ketone fire extinguishing device (optional)
Communication Methods	CAN2.0/RS485
Warranty Period (years)	10
Certification	IEC62619–CB,CE,UN38.3
Compatible Inverters	SMA/VICTRON/SE/DEYE/SOLIS/GOODWE/GROWATT/ LUXPOWERTEK/SENERGY/SRD etc



DHN-LVEH3P8~12K-G1

Three-phase Hybrid Energy Storage Inverter

The DHN-LVEH3P series hybrid inverter can simultaneously meet the requirements of both photovoltaic and energy storage systems. It integrates on-grid and off-grid functionalities, bidirectional power control, and intelligent management, enabling autonomous energy dispatch. Its modern design aligns with the concept of smart homes, making it an ideal choice for residential applications. This series is compatible with various batteries and pairs seamlessly with the DHN-LVWES battery series, offering multiple charging and discharging power options to ensure safe and reliable power supply for households.



Safety

- Intelligent AI - DC Arc fault protection
- Supports 2 times overload in short-time(10S)
- IP65 protection degree



Flexible

- Compatible with diesel generators
- AC couple to retrofit existing solar system
- 100% three-phase unbalanced output, 50% maximum output of rated power/phase



Smart

- 4ms backup power switching
- Colored LCD touchscreen for intuitive setup & real-time monitoring
- Supports the setting of 6 time periods for battery charging/discharging



High Efficiency

- Supports 1.6 times DC overloading
- 240A charge and discharge current
- 97.57% maximum conversion efficiency & 93% maximum charging efficiency



Technical Data

Model	DHN-LVEH3P8K-EU-G1		DHN-LVEH3P10K-EU-G1		DHN-LVEH3P12K-EU-G1	
Battery Input Data						
Battery Type	Lead-acid/Li-ion					
Battery Voltage Range (V)	40~60					
Max. Charging Current (A)	190		210		240	
Max. Discharging Current (A)	190		210		240	
Charging Strategy for Li-ion Battery	Self-adaption to BMS					
Number of Battery Input	1					
PV String Input Data						
Max. PV Input Power (W)	12800		16000		19200	
Max. PV Input Voltage (V)	800					
Start-up Voltage (V)	150					
MPPT Voltage Range (V)	200~650					
Rated voltage (V)	550					
Max. Operating PV Input Current (A)	16+16		26+16		26+16	
Max. Input Short-Circuit Current (A)	20+20		34+20		34+20	
No. of MPP Trackers/No. of Strings MPP Tracker	2/1+1		2/2+1		2/2+1	
AC Input/Output Data						
Rated AC Input/Output Active Power (W)	8000		10000		12000	
Max. AC Input/Output Apparent Power (VA)*	8800		11000		13200	
Rated AC Input/Output Current (A)	12.1/11.6		15.2/14.5		18.2/17.4	
Max. AC Input/Output Current (A)*	13.3/12.8		16.7/15.9		20/19.1	
Peak Power (off-grid) (W)	2 times of rated power for 10s					
Power Factor Adjustment Range	0.8 leading to 0.8 lagging					
Rated Input/Output Voltage/Range (V)	220/380, 230/400 0.85Un-1.1Un					
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65					
Grid Connection Form	3L+N+PE					
Total Current Harmonic Distortion THDi	<2% (of nominal power)					
DC Injection Current	0.5% In					
Efficiency						
Max. Efficiency	97.57%					
Euro Efficiency	96.85%					
MPPT Efficiency	>99.99%					
Equipment Protection						
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection leve					
Surge Protection Level	TYPE II (DC), TYPE II (AC)					
Interface						
Communication Interface	RS485/CAN					
Monitor Mode	WIFI/Bluetooth					
General Data						
Operating Temperature Range (°C)	-40 to +60					
Permissible Ambient Humidity	0-100%					
Permissible Altitude (m)	2000					
Ingress Protection(IP) Rating	IP 65					
Inverter Topology	Non-Isolated					
Over Voltage Category	OVC II (DC), OVC III (AC)					
Cabinet Size (WxHxD mm)	450*677*255					
Weight (kg)	36.2					
Type of Cooling	Intelligent Air Cooling					
Warranty	5 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy					
Grid Regulation	Ordinance No.140 / Ordinance No.515					
Safety / EMC Standard	IEC/EN 61000-6-1:2019, IEC/EN 61000-6-3:2021, IEC/EN 62109-1:2010, IEC/EN 62109-2:2011, IEC 63027:2023					



DHN-LVEH1P3~8K-G1

Single-phase Hybrid Energy Storage Inverter

The DHN-LVEH1P series hybrid inverter can simultaneously meet the requirements of both photovoltaic and energy storage systems. It integrates on-grid and off-grid functionalities, bidirectional power control, and intelligent management, enabling autonomous energy dispatch. Its modern design aligns with the concept of smart homes, making it an ideal choice for residential applications. This series is compatible with various batteries and pairs seamlessly with the DHN-LVWES battery series, offering multiple charging and discharging power options to ensure safe and reliable power supply for households.



Safety

- Intelligent AI - DC Arc fault protection
- Supports 2 times overload in short-time
- IP65 protection degree



Flexible

- Compatible with diesel generators
- AC couple to retrofit existing solar system
- Max.10 pcs parallel for on&off-grid operation, support multiple batteries parallel



Smart

- 4ms backup power switching
- Colored LCD touchscreen for intuitive setup & real-time monitoring
- Supports the setting of 6 time periods for battery charging/discharging



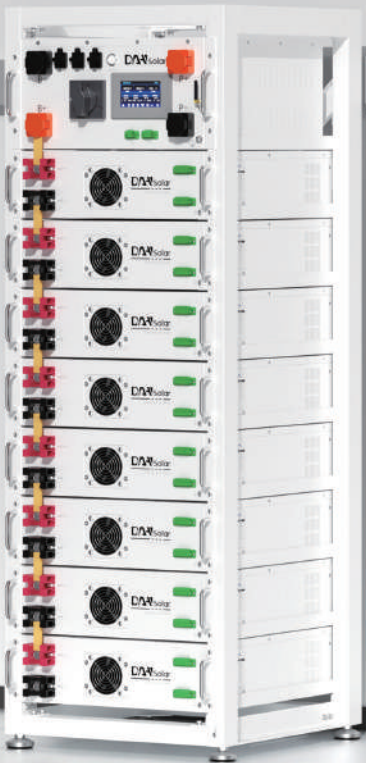
High Efficiency

- Supports 1.6 times DC overloading
- 180A charge and discharge current
- 97.6% maximum conversion efficiency & 95% maximum charging efficiency

Technical Data

Model	DHN-LVEH1P3K-EU-G1 DHN-LVEH1P3K-BR-G1	DHN-LVEH1P3.6K-EU-G1 DHN-LVEH1P3.6K-BR-G1	DHN-LVEH1P5K-EU-G1 DHN-LVEH1P5K-BR-G1	DHN-LVEH1P6K-EU-G1 DHN-LVEH1P6K-BR-G1	DHN-LVEH1P7K-EU-G1 DHN-LVEH1P7K-BR-G1	DHN-LVEH1P7.5K-EU-G1 DHN-LVEH1P7.5K-BR-G1	DHN-LVEH1P8K-EU-G1 DHN-LVEH1P8K-BR-G1
Battery Input Data							
Battery Type	Lead-acid/Li-Ion						
Battery Voltage Range (V)	40~60						
Max. Charging Current (A)	70	80	112	135	157	169	180
Max. Discharging Current (A)	70	80	112	135	157	169	180
Charging Strategy for Li-ion Battery	Self-adaption to BMS						
Number of Battery Input	1						
PV String Input Data							
Max. PV Input Power (W)	4800	5760	8000	9600	11200	12000	12800
Max. PV Input Voltage (V)	500						
Start-up Voltage (V)	120						
MPPT Voltage Range (V)	120~425						
Rated PV Input Voltage(V)	370						
Max. Operating PV Input Current (A)	20		20+20				
Max. Input Short-Circuit Current (A)	23						
No. of MPP Trackers/No. of Strings MPP Tracker	1/1		2/1+1				
AC Input/Output Data							
Rated AC Input/Output Active Power (W)	3000	3600	5000	6000	7000	7500	8000
Max. AC Input/Output Apparent Power (VA)*	3300	3960	5500	6600	7700	8250	8800
Rated AC Input/Output Current (A)	13.6/13	16.4/15.7	22.8/21.8	27.3/26.1	31.8/30.4	34.1/32.6	36.4/34.8
Max. AC Input/Output Current (A)*	15/14.3	18/17.3	25/24	30/28.7	35/33.5	37.5/35.9	40/38.3
Max. Continuous AC Passthrough (grid to load)(A)	27	33	46	54	54	54	54
Peak Power (off-grid) (W)	2 times of rated power for 10s						
Power Factor Adjustment Range	0.8 leading to 0.8 lagging						
Rated Input/Output Voltage/Range (V)	220/230 0.85Un~1.1Un						
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65						
Grid Connection Form	L+N+PE						
Total Current Harmonic Distortion THDi	<2% (of nominal power)						
DC Injection Current	<0.5% In						
Efficiency							
Max. Efficiency	97.60%						
Euro Efficiency	96.50%						
MPPT Efficiency	99%						
Equipment Protection							
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection leve						
Surge Protection Level	TYPE III(DC), TYPE III(AC)						
Interface							
Communication Interface	RS485/CAN						
Monitor Mode	WIFI						
General Data							
Operating Temperature Range (℃)	-40 to +60						
Permissible Ambient Humidity	0-100%						
Permissible Altitude (m)	3000						
Ingress Protection(IP) Rating	IP65						
Inverter Topology	Non-Isolated						
Over Voltage Category	OVC III(DC), OVC III(AC)						
Cabinet Size (WxHxD mm)	330*563*223						
Weight (kg)	23.7				24.9		
Type of Cooling	Natural cooling				Intelligent Air Cooling		
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy						
Safety / EMC Standard	IEC/EN 61000-6-1:2019, IEC/EN 61000-6-3:2021,IEC/EN 62109-1:2010, IEC/EN 62109-2:2011, IEC 63027:2023						

Note: *It is only implemented under specific safety regulations and working conditions.



DHN-HVRES Series

High-Voltage Energy Storage System

Adopting a modular design, the DHN-HVRES series supports flexible multi-string expansion, making it ideal for scenarios including villas, commercial & industrial facilities and microgrids. Built on high-safety LFP battery cells, it features long cycle life, high power density, and a compact form factor. The intelligent BMS (Battery Management System) ensures stable operation throughout the system lifecycle. Its modular architecture enables customized configurations, providing an efficient and reliable green energy solution.



Flexibility

- Plug-and-play embedded design for rapid deployment (5-minute setup).
- 3-17 battery packs freely connected in series, with a voltage range of 154-870V.
- Modular design for easier maintenance and replacement.



Safety

- Grade-A lithium iron phosphate (LFP) cells for superior safety.
- Fire Protection System: Optional pre-setting fire extinguisher.
- 5-layer BMS protection (overcharge/over-discharge/overcurrent/high-low temperature/short circuit).



Efficiency

- Ultra-low self-discharge rate, maintaining over 90% capacity after 6 months of storage without recharge
- No memory effect, excellent performance under partial charge/discharge.
- 6,000+ cycles (at 70% SOH).



Intelligence

- ±1% SOC auto-calibration for precise energy monitoring.
- Automatic charge/discharge management with current/voltage balancing.
- OTA remote upgrades supported for firmware optimization.

Technical Data

Model	DHN-HVRES-G1		
Main Parameter			
Single Battery Model	DHN-HVRES05-G1		
Battery Type	LiFePO4		
Nominal Energy(kWh)	5.12		
Nominal Voltage(V)	51.2		
Nominal Capacity(Ah)	100		
Dimension (W/H/D,mm)	482.6*140*550		
System Model	DHN-HVR05×5-G1	DHN-HVR05×8-G1	DHN-HVR05×12-G1
Battery Module Qty In Series (Optional)	5	8	12
System Nominal Energy (kWh)	25.6	40.96	61.44
System Nominal Voltage(V)	256	409.6	614.4
System Operating Voltage(V)	216~292	345.6~467.2	518.4~700.8
Charge/Discharge Current(A)–Recommend	50		
Charge/Discharge Current(A)–Max	100		
Dimension System(W/H/D,mm)	528×1108×602	528×1543×602	528×2123×602
System Weight (kg)	296	455	650
IP Rating of Enclosure	IP20		
Operating Temperature(°C)	Charge:0~+60/Discharge:–20~+60		
StorageTemperature(°C)	0~+35		
Recommend Depth of Discharge(%)	≤90		
Cycle Life(25±2°C,0.5C/0.5C,70%EOL)	≥6000		
Communication Methods	CAN2.0/RS485		
Warranty Period(years)	10		
Certification	UN38.3		

DHN-HVRES Series

High-Voltage Energy Storage System

Adopting a modular design, the DHN-HVRES series supports flexible multi-string expansion, making it ideal for scenarios including villas, commercial & industrial facilities and microgrids. Built on high-safety LFP battery cells, it features long cycle life, high power density, and a compact form factor. The intelligent BMS (Battery Management System) ensures stable operation throughout the system lifecycle. Its modular architecture enables customized configurations, providing an efficient and reliable green energy solution.



Flexibility

- Plug-and-play embedded design for rapid deployment (5-minute setup).
- 3-17 battery packs freely connected in series, with a voltage range of 154-870V.
- Modular design for easier maintenance and replacement.



Safety

- Grade-A lithium iron phosphate (LFP) cells for superior safety.
- Fire Protection System: Optional pre-setting fire extinguisher.
- 5-layer BMS protection (overcharge/over-discharge/overcurrent/high-low temperature/short circuit).



Efficiency

- Ultra-low self-discharge rate, maintaining over 90% capacity after 6 months of storage without recharge
- No memory effect, excellent performance under partial charge/discharge.
- 8,000+ cycles (at 70% SOH).



Intelligence

- ±1% SOC auto-calibration for precise energy monitoring.
- Automatic charge/discharge management with current/voltage balancing.
- OTA remote upgrades supported for firmware optimization.

Technical Data

Model	DHN-HVRES-G1			
Main Parameter				
Single Battery Model	DHN-HVRES15-G1			
Battery Type	LiFePO4			
Nominal Energy(kWh)	14.34			
Nominal Voltage(V)	51.2			
Nominal Capacity(Ah)	280			
Dimension (W/H/D,mm)	488*230*790			
System Model	DHN-HVR15×7-G1	DHN-HVR15×12-G1	DHN-HVR15×15-G1	DHN-HVR15×17-G1
Battery Module Qty In Series (Optional)	7	12	15	17(Max)
System Nominal Energy (kWh)	100.38	172.08	215.1	243.78
System Nominal Voltage(V)	358.4	614.4	768	870.4
System Operating Voltage(V)	302.4~403.2	518.4~691.2	648~864	734.4~979.2
Charge/Discharge Current(A)–Recommend	140			
Charge/Discharge Current(A)–Max	160			
Dimension System(W/H/D,mm)	544×2150×816	1088×1910×816	1088×2150×816	1088×2340×816
System Weight (kg)	890	1509	1855	2112
IP Rating of Enclosure	IP20			
Operating Temperature(°C)	Charge:0~+55/Discharge:–20~+55			
StorageTemperature(°C)	0~+35			
Recommend Depth of Discharge(%)	≤90			
Cycle Life(25±2°C,0.5C/0.5C,70%EOL)	≥8000			
Communication Methods	CAN2.0/RS485			
Warranty Period(years)	10			
Certification	UN38.3			

DHN–HVRES05–PDU Technical Data



Model	DHPDU01SC10A1403P721
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Main Parameter

Operating Voltage (Vdc)	250~1000
Nominal Charge/Discharge Current (A)	50
Max.Charge/Discharge Current (A)	100
Operating Temperature Range (°C)	−20~55
IP Rating of Enclosure	IP20
Dimension (W/H/D,mm)	488×230×510
Weight (kg)	23.6

Technical Data

Model	DHN–RACK05–9 (Can install 8pcs batteries and 1pcs High Voltage Battery cluster control box) DHN–RACK05–13 (Can install 12pcs batteries and 1pcs High Voltage Battery cluster control box)	
Dimension(WxHxD,mm) Weight(kg)	528x1543x602mm 60kg	528x2123x602mm 74kg

DHN–HVRES15–PDU Technical Data



Model	DHPDU01SC10A1403P721
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Main Parameter

Operating Voltage (Vdc)	250~1000
Nominal Charge/Discharge Current (A)	140
Max.Charge/Discharge Current (A)	160
Operating Temperature Range (°C)	−20~55
IP Rating of Enclosure	IP20
Dimension (W/H/D,mm)	488*230*510
Weight (kg)	23.6

Technical Data

Model	DHN–RACK15–8 (Can install 7pcs batteries and 1pcs High Voltage Battery cluster control box) DHN–RACK15–8*2 (Can install 15pcs batteries and 1pcs High Voltage Battery cluster control box)	
Dimension(W/H/D,mm) Weight(kg)	544*2150*816mm 97kg	1088*2150*816mm 181kg

DHN-LVRES15-G1

Low-voltage Rack Energy Storage Battery

The DHN-LVRES series product is a low-voltage rack energy storage battery designed to provide efficient and reliable energy storage solutions for households, businesses, and specific occasions. The modular design enables scalable expansion, addressing various energy requirements. Adopting top tier brand lithium iron phosphate battery cells, Built in efficient intelligent battery management system(BMS), comprehensively monitoring and controlling the battery energy storage system to ensure its safe, stable and high-performance operation



Flexible

- Supports mixed use of old & new batteries, enhance system flexibility
- Small size, high power density.
- Support rack-mounted installations, high space utilization.
- Match with mainstream low-voltage energy storage inverters.



Safe

- A-grade lithium iron phosphate battery with high safety performance.
- Intelligent BMS with multiple safety functions, making it safer to use.
- Fire Protection System: Optional pre-setting fire extinguisher.



Long Life-time

- Cycle life of over 8000 cycles (70% SOH).
- High parallel balancing current to ensure battery consistency.



Convenient & Smart

- Bluetooth/WiFi function, support real time monitor and remote software upgrade by APP
- Support Bluetooth/WiFi inverter protocol configuration function, quickly set-up and easy to operate
- Automatic networking of battery modules, easy to maintain.



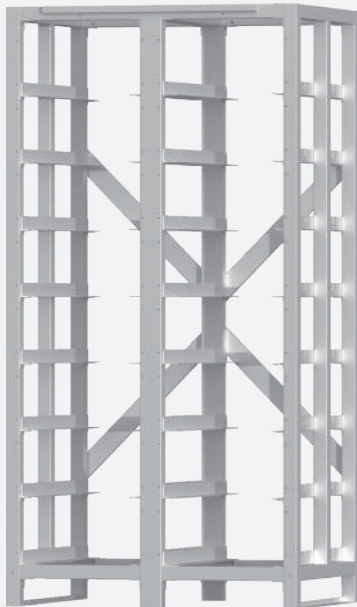
One-stop Service

- DAH Solar provide integrated system configuration services from PV to energy storage.

Technical Data

Model	DHN–LVRES–G1	
Main Parameter		
Single Battery Model	DHN–LVRES15–G1	
Battery Type	LiFePO4	
Nominal Energy (kWh)	14.34	
Nominal Voltage (V)	51.2	
Nominal Capacity (Ah)	280	
Dimension (W/H/D,mm)	488*230*790	
Weight (kg)	112	
System Model		
	DHN–LVRES114–G1	DHN–LVRES229–G1
Battery Module Qty In Series (Optional)	8 (Normal)	16 (MAX)
System Nominal Energy (kWh)	114.72	229.44
Charge/Discharge Current(A)–Recommend	140	
Charge/Discharge Current(A)–Max	200	
Dimension System (W/H/D,mm)	544*2150*816	1088*2150*816
System Weight (kg)	993	1973
IP Rating of Enclosure	IP20	
Operating Temperature (°C)	Charge:0~+55/Discharge:–20~+55	
StorageTemperature (°C)	0~+35	
Recommend Depth of Discharge (%)	≤90	
Cycle Life(25+2°C,0.5C/0.5C70%EOL)	≥8000	
Communication Methods	CAN2.0/RS485	
Warranty Period (years)	10	
Certification	UN38.3	

Technical Data

Model	DHN-RACK15-8 (Can install 8pcs batteries) DHN-RACK15-8*2 (Can install 16pcs batteries)	
Dimension(WxHxD,mm) Weight(kg)	544x2150x816mm 97kg 	1088x2150x816mm 181kg 

DHN-LVRES05-G1

Low-voltage Rack Energy Storage Battery

The DHN-LVRES series product is a low-voltage rack energy storage battery designed to provide efficient and reliable energy storage solutions for households, businesses, and specific occasions. The modular design enables scalable expansion, addressing various energy requirements. Adopting top tier brand lithium iron phosphate battery cells, Built in efficient intelligent battery management system(BMS), comprehensively monitoring and controlling the battery energy storage system to ensure its safe, stable and high-performance operation.





Flexible

- Supports mixed use of old & new batteries,enhance system flexibility
- Small size, high power density.
- Support stacked and rack-mounted installations,high space utilization.
- Match with mainstream low-voltage energy storage inverters.



Safe

- A-grade lithium iron phosphate battery with high safety performance.
- Intelligent BMS with multiple safety functions, making it safer to use.
- Fire Protection System: Optional pre-setting fire extinguisher.



Long Life-time

- Cycle life of over 6000 cycles (70% SOH).
- High parallel balancing current to ensure battery consistency.



Convenient & Smart

- Bluetooth/WiFi function, support real time monitor and remote software upgrade by APP
- Support Bluetooth/WiFi inverter protocol configuration function, quickly set-up and easy to operate
- Automatic networking of battery modules, easy to maintain.



One-stop Service

- DAH Solar provide integrated system configuration services from PV to energy storage.

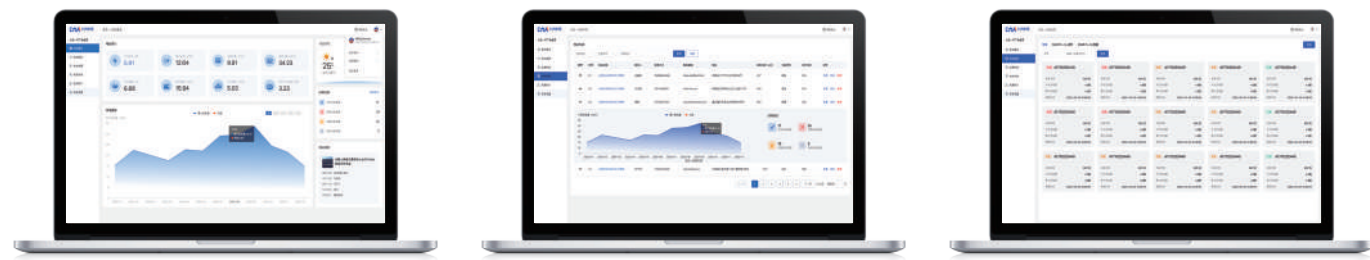
Technical Data

Model	DHN-LVRES-G1
Main Parameter	
Battery Type	LiFePO4
Battery Rated Energy (kWh)	5.12
Battery Rated Capacity (Ah)	100
Scalability	Parallel connection of up to 16 units
Nominal Voltage (V)	51.2
Operating Voltage(V)	43.2~58.4
Charge/Discharge Current (A)–Recommend	50
Charge/Discharge Current (A)–Max.	100
Other Parameter	
Recommend Depth of Discharge(%)	≤90
System Dimension (W/H/D, mm)	440*140*550
System Weight (kg)	45
Master LED Indicator	6LED (SOC:16.6%~100%), 3LED (ON/OFF,RUN,ALARM)
IP Rating of Enclosure	IP20
Operating Temperature(℃)	Charge:0~+60/Discharge:–20~+60
Storage Temperature(℃)	0~+35
Cycle Life (25±2℃,0.5C/0.5C,70%EOL)	≥6000
Installation	Rack–mounted/Stackable
Fire Prevention System	Prefabricated whole fluorine ketone fire extinguishing device (optional)
Communication Methods	CAN2.0/RS485
Warranty Period (years)	10
Certification	UN38.3
Compatible Inverters	SMA/VICTRON/SE/DEYE/SOLIS/GOODWE/GROWATT/ LUXPOWERTEK/SENERGY/SRD etc

DAH SOLAR SMART ENERGY MANAGEMENT SYSTEM

Our advanced monitoring solution ensures optimal performance of your PV system throughout its entire lifecycle. Through Wi-Fi connectivity with your router via a smart plug, the system delivers comprehensive real-time data including: Daily/Monthly/Annual energy production, lifetime cumulative output, system efficiency metrics. Access your personalized energy dashboard anytime through our dedicated web portal or mobile app, featuring intuitive visualization of power generation trends. Designed to maximize energy yield while reducing operational costs, this smart eco-system empowers informed decision-making for sustainable energy management.

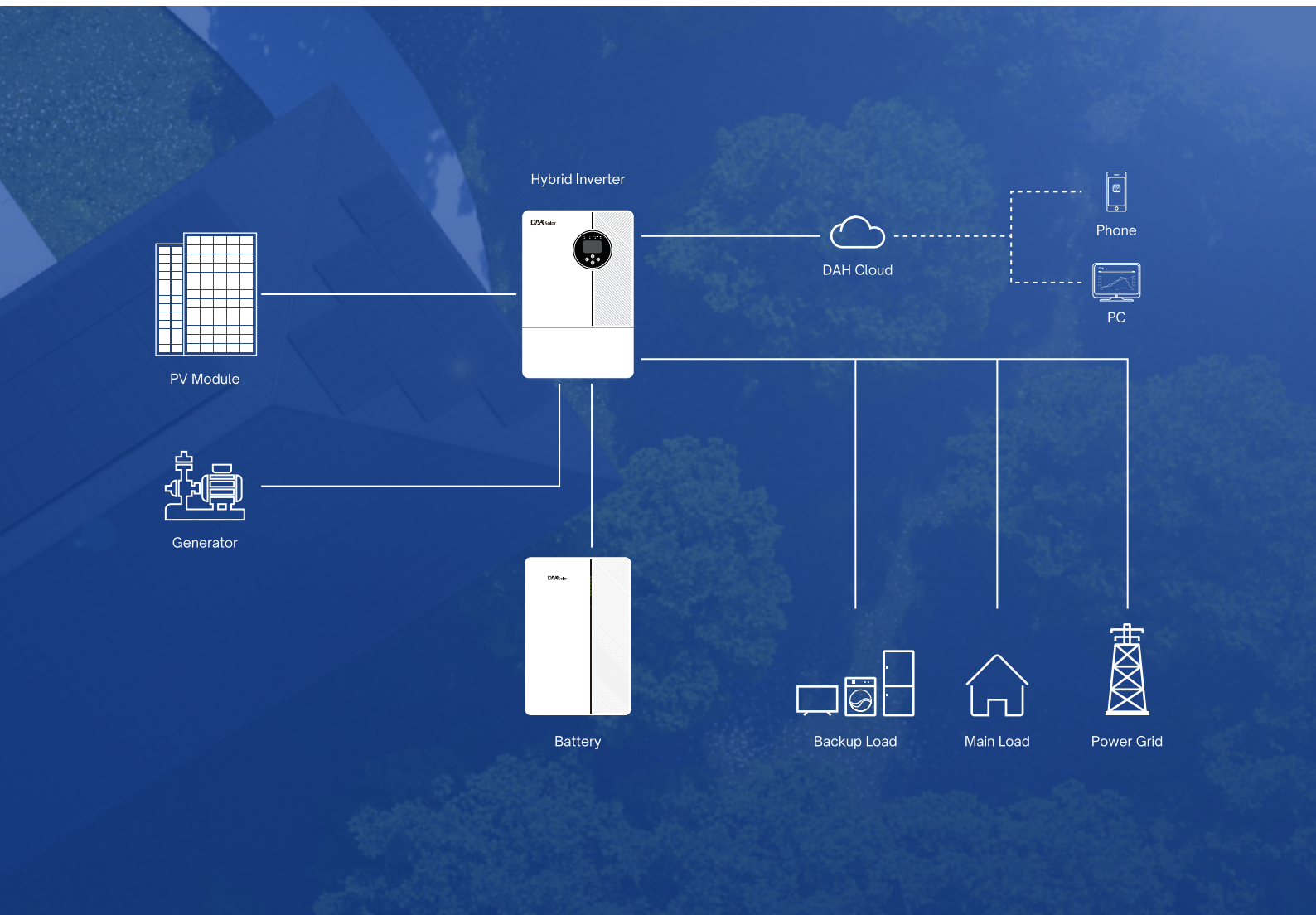
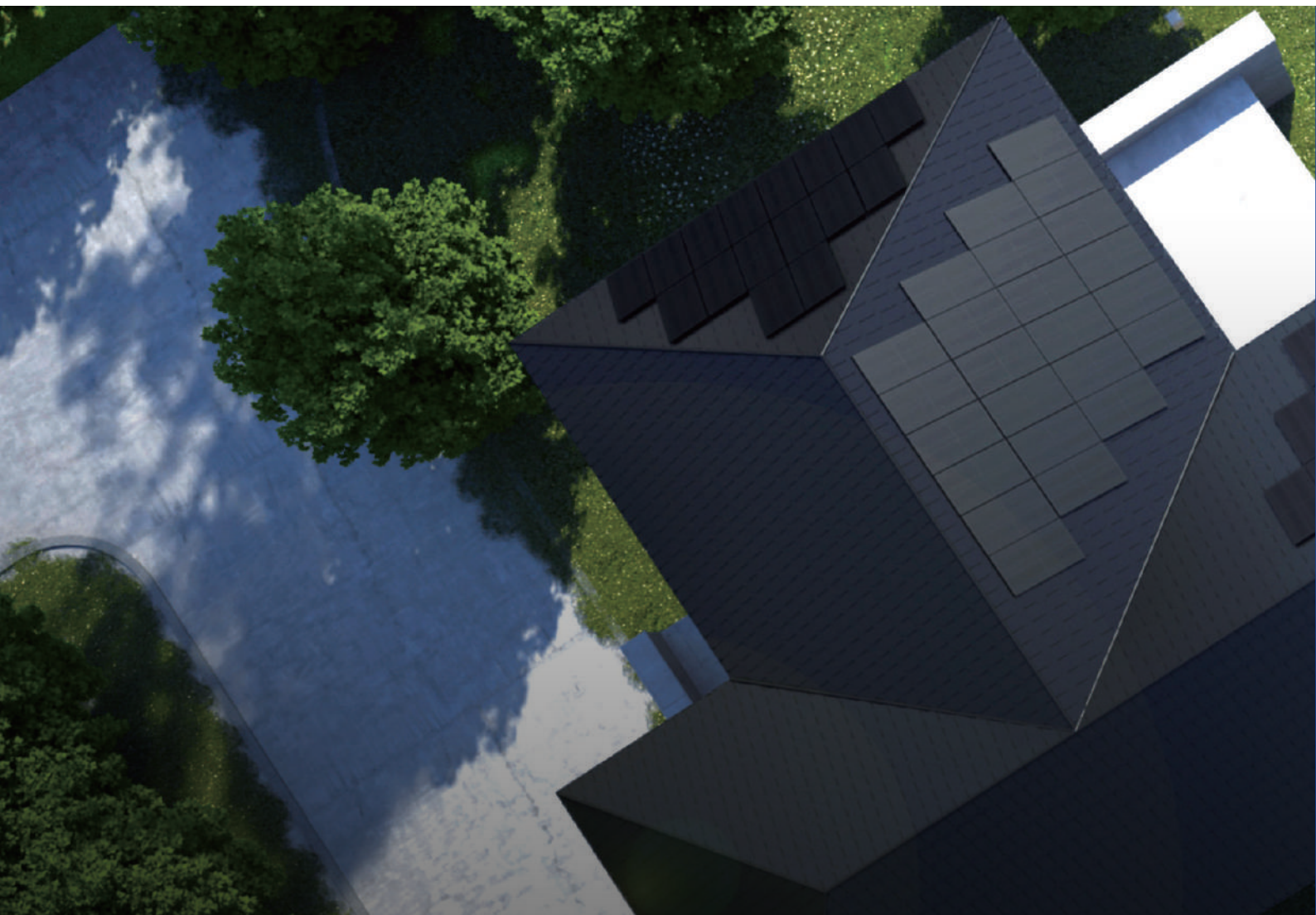
Build your future-ready power station today – Scan the QR code below to begin your solar optimization journey!



APP
for end user account



DAH Cloud
for distributor account



PROJECT CASES



PROJECT CASES



Installed capacity: 200kWh
Product specification: 80kW / 200kWh High Voltage Energy Storage System



Installed capacity: 200kWh
Product specification: Hybrid Inverter + Lithium Battery



Installed capacity: 100kWh



Product specification: 2 x 12kW Hybrid Inverters + 6 x 15kWh Rack Batteries



Installed capacity: 110MWh
Product specification: 5MW / 10MWh Containerized Energy Storage System



Installed capacity: 150kWh
Product specification: 72kW / 150kWh Low Voltage Energy Storage System