

Global Strategic Layout

Global Service Center



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A15 The All-in-One Solution

A15 refers to a complete system comprising any of the A-series inverter models listed below paired with the B15 high-voltage battery.



Inverter Model	A3600S	A4600S	A5000S	A8000S	A10000S	A15000T
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Battery Model	B14400-H	B14400-HW
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14.4kWh High-Density Single Module

Experience true high capacity with a single 14.4kWh module. Cleaner aesthetics, fewer cables, and much faster installation.



All-Weather Resilience

IP65 All-Weather Protection Engineered with a rugged IP65 rating to completely seal out water and dust. Install outdoors with absolute confidence, whatever the weather brings.



Extreme Climate Resilience (-20°C to 55°C)

Built to withstand the harshest winters and summer heatwaves. Reliable charging and discharging from -20°C to 55°C without performance drops.



1C Rapid Charge & Discharge

Description: Ultra-fast 1C capability means you can fully charge or discharge the massive 14.4kWh capacity in just one hour—perfect for capturing fleeting low-price energy windows.



<8W Ultra-Low Low Power Mode

Ultra-low energy waste overnight. Consuming less than 8W on Low Power mode (just 0.08kWh over 10 hours), the system sleeps deeply and wakes automatically with the morning sun.



Highly Integrated BMS, Simplified Installation

Integrating the BMS directly into the module reduces wiring complexity and enables faster, easier installation.



Auto-Fault Isolation for Uninterrupted Power

Intelligent module isolation guarantees continuous energy. If one battery in the cluster experiences a fault, the system bypasses it instantly, keeping your home energized.



18cm Ultra-Slim Design 0.13m² Footprint

Incredibly slim at just 18cm, only 0.13m² footprint. Designed specifically to fit unobtrusively in narrow alleys, side passages, or tight garages.



Unlimited Parallel Installation Flexibility

Tailored to your space with side-by-side or front-to-back clustering. Solve complex installation challenges with flexible mounting options.



Seamless & Smart Battery Expansion

Effortlessly mix new and existing modules without on-site pre-charging or complex capacity testing. The parallel connection will be automatically completed within an 8V voltage difference for a seamless capacity upgrade.



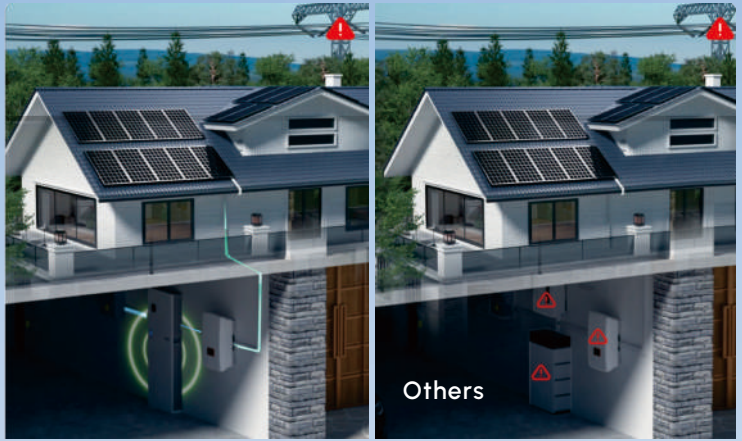
Internal Automatic Aerosol Fire Suppression

Seconds-level response to thermal runaway. Automatically deploys a high-efficiency aerosol suppressant to extinguish fires instantly, providing a comprehensive safety solution.

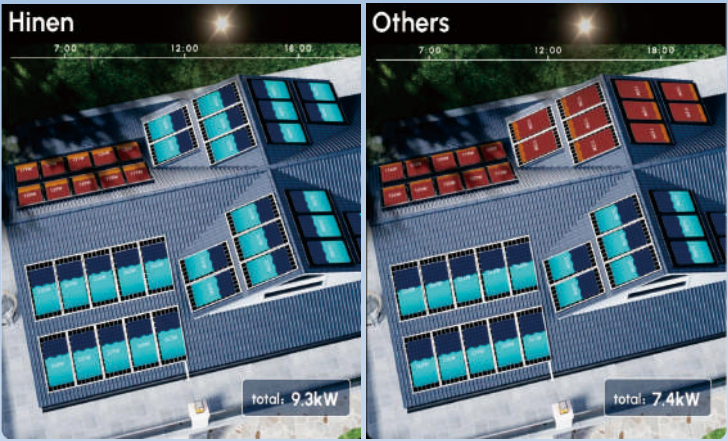


Inverter & Battery Parallel Function

Inverter parallel function, up to 6 inverters in parallel; Battery parallel function, up to 6 clusters battery in parallel per inverter, get 6 times power.



Others



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Others

total: 9.3kW

total: 7.4kW

Grid Forming Function

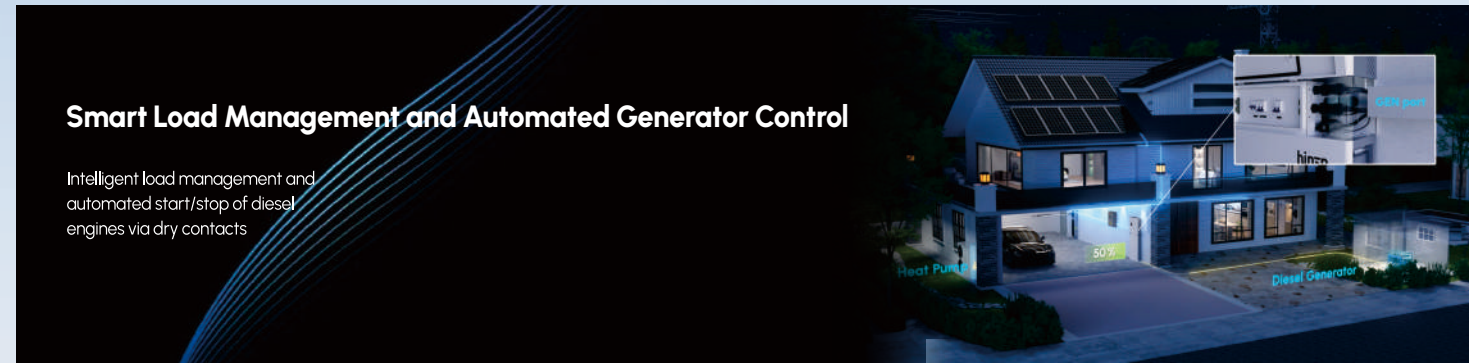
When the grid is down, Hinen A series automatically simulates the grid frequency, allowing the PV inverter to continue working, never wastes your energy.

4MPPT & Larger PV Input Power

8-15kW single-phase and 10-25kW three-phase all-in-one system equipped with 4 independent MPPT inputs, optimizing power generation and maximizing usable energy.

Smart Load Management and Automated Generator Control

Intelligent load management and automated start/stop of diesel engines via dry contacts



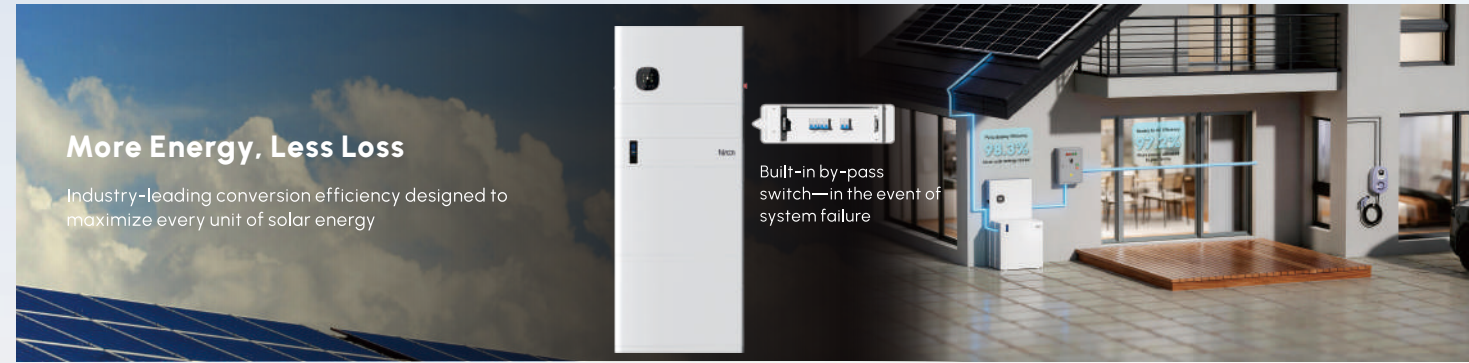
Heat Pump

50%

Diesel Generator

More Energy, Less Loss

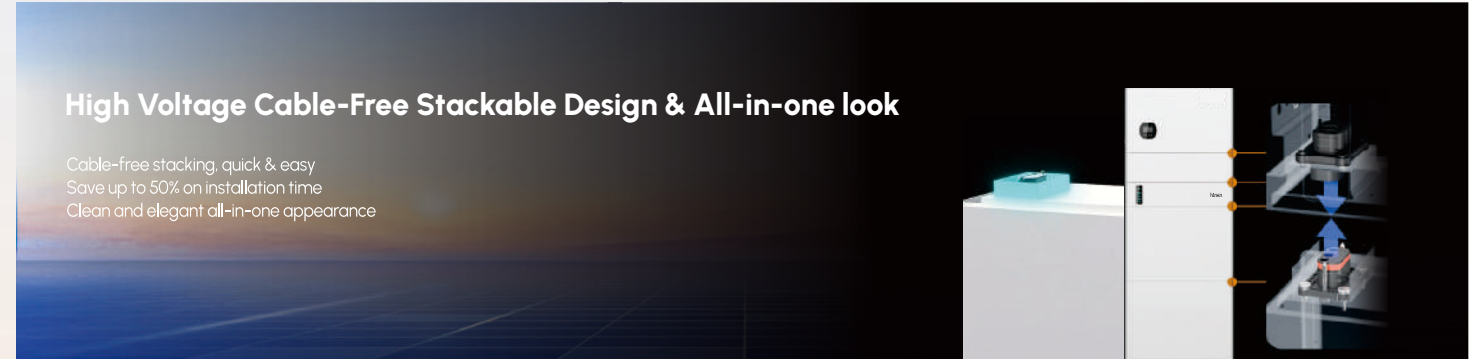
Industry-leading conversion efficiency designed to maximize every unit of solar energy



Built-in by-pass switch—in the event of system failure

High Voltage Cable-Free Stackable Design & All-in-one look

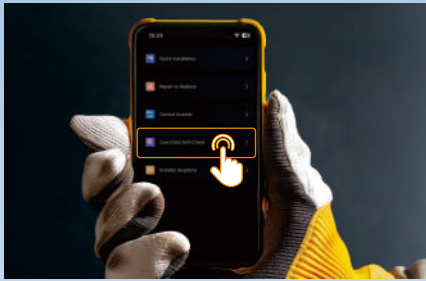
Cable-free stacking, quick & easy
Save up to 50% on installation time
Clean and elegant all-in-one appearance



Hinen Smart Energy Management System

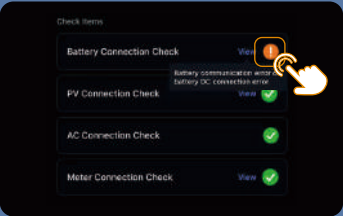
The Intelligent Brain of Your Home Energy



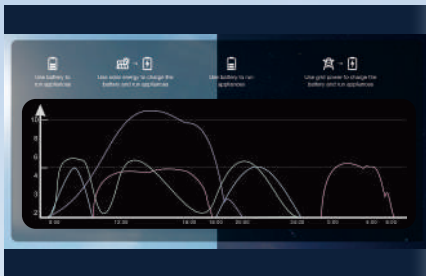


One-Click Self-Check, Ready in Seconds

Quickly verify the status of battery, PV, AC and meter connections in one tap. Reduce commissioning time and minimize on-site troubleshooting before handover. Guarantee a perfect delivery, every single time.

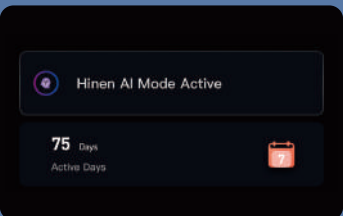


Check items	
Battery Connection Check	View
PV Connection Check	View
AC Connection Check	View
Meter Connection Check	View



Smart AI Optimization

Hinen AI mode automatically adjusts charging and discharging based on your usage patterns, solar generation and available tariff signals. Designed to help reduce electricity bills and improve battery utilization.



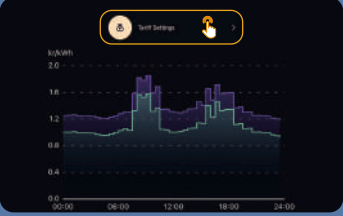
Hinen AI Mode Active

75 Days Active Days



Dynamic Tariff Sync

Sync with supported dynamic tariffs(e.g. Octopus) to charge during low-price periods and use stored energy when rates are higher. Helps optimize energy cost without manual intervention.



tariff Sync

kWh

2.0

1.8

1.6

1.4

1.2

1.0

0.8

0.6

0.4

0.2

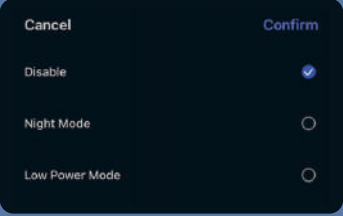
0.0

06:00 12:00 18:00 24:00

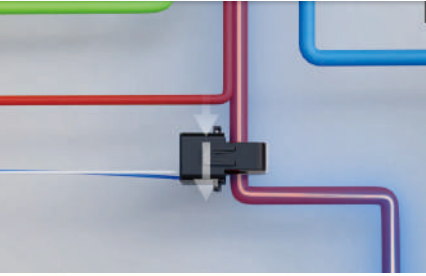


Ultra-Low Power Mode for Nighttime Efficiency

Reduce system standby consumption during low-demand periods. Schedule night mode or low power mode to improve overall system efficiency and preserve stored energy.

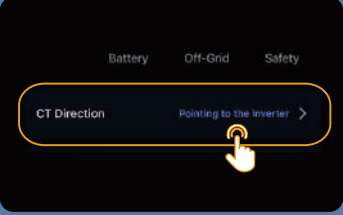


Cancel	Confirm
Disable	☒
Night Mode	☐
Low Power Mode	☐



Remote CT Calibration, Fix in a Click

Adjust CT direction and grid measurement settings remotely via the app. Avoid unnecessary site visits and ensure accurate system data after installation.



Battery Off-Grid Safety

CT Direction

Pointing to the inverter

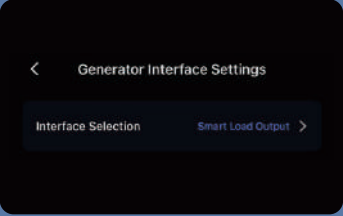


Heat Pump

95%

Smart Load Management, Put Every Watt to Work

Put your surplus solar to work. Select smart load mode at generator port setting to automatically power heavy loads like heat pumps once your battery hits its target SOC. Will not waste any ray of sunshine.



Generator Interface Settings

Interface Selection

Smart Load Output

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3.6-5kW Single-phase Hybrid All-in-one RESS

A Series H3.6/4.6/5S A3600S/A4600S/A5000S + B14400-H
3.6kW/4.6kW/5kW 14.4kWh-72kWh

Technical Specification	A3600S	A4600S	A5000S
PV Input Specification			
Recommended max. PV input power(W)	7200	9200	10000
Max. PV input voltage(V)	550		
Startup input voltage(V)	90		
MPPT voltage range(V)	100–530		
No. of independent MPPT inputs	2		
No. of PV strings per MPPT	1 / 1		
Max. PV input current(A)	16A/16A		
Battery Specification			
Battery voltage range(V)	80–460		
Max. charge / discharge current(continuous)(A)	35A/37A		
Max. charge / discharge power(continuous)(W)	5000 / 5000	5000 / 5000	5000 / 5000
Grid Port Specification			
Max. AC input apparent power(VA)	7500	7500	7500
Max.AC input current	34.1	34.1	34.1
Max. AC output apparent power(VA)	3600	4600	4999
Rated AC output power(W)	3600	4600	4999
Max. AC output current(A)	16.4	21	22.8
Rated AC output current(A)	15.7	20	21.8
Rated AC voltage(V)	L / N / PE, 220 / 230 / 240		
Rated grid frequency(Hz)	50 / 60		
THDI @Full load	< 3%		
Power factor at rated power/ Adjustable power factor	> 0.99 (0.8 leading – 0.8 lagging)		
GEN Input Specification <i>Not available in AU version</i>			
Max. AC input apparent power(VA)	7500	7500	7500
Rated AC voltage(V)	L / N / PE, 220 / 230 / 240		
Rated GEN frequency (Hz)	50 / 60		
Backup Port Specification			
Max AC output apparent power(VA)	5500	5500	5500
Rated output power(W)	3600	4600	5000
Peak output power	7500W 10S	7500W 10S	7500W 10S
Max AC output current(A)	25	25	25
Rated voltage	L / N / PE, 220 V / 230 V / 240V		
Rated grid frequency(Hz)	50/60		
THDV @Linear load	< 3%		
Backup switch time	≤10 ms		
Efficiency			
Max. efficiency(%)	97.5		
European efficiency(%)	96.9		
General Information			
Topology (solar / battery)	Transformerless / Transformerless		
Over Voltage Category	DC type II / AC type III		
Degree of protection	IP65		
Dimensions* (W * H * D)(mm)	730 *555 *180 (±4)		
Weight*(kg)	42(±3)		
Cooling method	Natural cooling		
Noise(MAX)(dB)	< 30		
Ambient temperature(°C)	-20°C~60°C(>45°C derating)		
Max. operating altitude(m)	3000		
Display	LCD+APP		
Monitor	RS485, WLAN, Ethernet, CAN		
Warranty	5 Years/10 Years the warranty period depends on the final installations site of inverter, more info please refer to warranty policy		

- 200% Oversized PV input, Max 10 kW
- Inverter parallel function, up to 6 units, Max. output power up to 30KW, massive energy storage of 106.8 kWh
- Stackable integrated design, plug & play, no additional cable, saving 50% installation time
- Built-in changeover switch, allows manual selection between Backup mode and By-pass mode for backup loads.
- Backup load works normally during remote upgrade and USB flash drive upgrade
- Backup load transfer time ≤10ms
- Visible energy tracking & remote upgrade on Hinen APP
- Smart load management (Secondary output port), intelligent load management and automated start/stop of diesel engines via dry contacts

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8-10kW Single-phase Hybrid All-in-one RESS

A Series H8/10S A8000S/A10000S + B14400-H
8kW/10kW 14.4kWh-72kWh

Technical Specification	A8000S	A10000S
PV Input Specification		
Recommended max. PV input power(W)	16000	20000
Max. PV input voltage(V)	550	
Startup input voltage(V)	90	
Rated PV input voltage(V)	100~530	
No. of independent MPPT inputs	4	4
No. of PV strings per MPPT	1 / 1 / 1 / 1	1 / 1 / 1 / 1
Max. PV input current(A)	16 / 16 / 16 / 16	16 / 16 / 16 / 16
Battery Input Specification		
Battery voltage range(V)	80~460	
Max. charge / discharge current(A)	45 / 47	
Max. charge / discharge power(W)	15000 / 15000	15000 / 15000
Grid Port Specification		
Max. AC power from grid(VA)	8800	16500
Max.AC input current(A)	72	72
Rated AC output power(W)	7999	9999
Max. AC output apparent power(VA)	7999	9999
Max. AC output current(A)	36.4	45.5
Rated AC output current(A)	34.8	43.5
Rated AC voltage	L / N / PE, 220 V / 230 V / 240V	
Rated grid frequency(Hz)	50 / 60	
THDI @Full load	< 3%	
Power factor at rated power/ Adjustable power factor	> 0.99(0.8 leading – 0.8 lagging)	
GEN Port Specification Not available in AU version		
Max. AC input apparent power(VA)	15000	15000
Rated AC voltage	L / N / PE, 220 V / 230 V / 240V	
Rated GEN frequency(Hz)	50/ 60	
Backup Port Specification		
Max AC output apparent power(VA)	15000	15000
Rated output power(W)	7999	9999
Peak output power	16500W, 10s	
Max AC output current(A)	65.2	65.2
Rated voltage	L / N / PE, 220 V / 230 V / 240V	
Rated grid frequency(Hz)	50/ 60	
THDV @Linear load	<3 %	
Backup switch time	≤10 mS	
Efficiency		
Max. efficiency(%)	97.5	
European efficiency(%)	96.8	
General Information		
Topology (solar / battery)	PV non-isolated, battery non-isolated	
Surge protection	DC type II / AC type III	
Degree of protection	IP65	
Dimensions* (W * H * D)(mm)	730 *637 *180(±4)	
Weight*(kg)	59.2(±1)	
Cooling method	Fan cooling	
Noise(MAX)(dB)	< 45	
Ambient temperature range(°C)	-20°C ~ 60°C(>45°C derating)	
Max. operating altitude(m)	3000	
Display	LCD+APP	
Monitor	RS485, WLAN, Ethernet, CAN	
Warranty	5 Years/10 Years the warranty period depends on the final installations site of inverter, more info please refer to warranty policy	

- 4 MPPT inputs, 200% Oversized PV input, Max 20 kW
- 230V/ 63A off-grid output power up to 15kW, support full load power supply for home
- Maximum efficiency up to 98%
- Smart load management (Secondary output port), intelligent load management and automated start/stop of diesel engines via dry contacts
- Built-in change over switch, allows manual selection between Backup mode and By-pass mode for backup loads.
- Support dual power supply(Grid & Diesel Generator)
- Backup load transfer time ≤10ms



15kW Three-phase Hybrid
All-in-one RESS

A Series 15T A15000T+ B14400-H
15kW / 14.4kWh-72kWh

Technical Specification		A15000T
PV Input Specification		
Recommended max. PV input power(W)		30000
Max. PV input voltage(V)		1000
Start Voltage(V)		120
MPPT voltage range(V)		140-950
No. of independent MPPT inputs		4
No. of PV strings per MPPT		1 / 1 / 1 / 1
Max. input current per string(A)		16 / 16 / 16 / 16
Max. short-circuit current(A)		22 / 22 / 22 / 22
Battery Specification		
Battery voltage(V)		120-600
Max charge / discharge current(A)		45 / 45
Max charge / discharge power(W)		20000/20000
Grid Port Specification		
Max AC input apparent power(VA)		15000
Max. AC input current(A)		30.4
Max AC output apparent power(VA)		15000
Rated AC output power(W)		15000
Max. AC output current(A)		22.8
Rated AC output current(A)		21.8
Rated AC voltage		400 / 230, 3L/N/PE
Rated grid frequency		50/60
THDI @Full load		< 3%
Power factor		> 0.99(0.8 leading - 0.8 lagging)
Backup Port Specification		
Max AC output apparent power(VA)		15000
Rated AC output power		15000
Peak AC output power(W)		20000
Max AC output current(A)		29
AC nominal voltage*(V)		400/230, 3L/N/PE
AC nominal frequency*(Hz)		50 / 60
THDV @Linear load		< 3%
Backup switch time(ms)		< 10mS
Efficiency		
Max efficiency(%)		98.0
European efficiency(%)		97.4
General Information		
Topology (solar / battery)		Transformerless / Transformerless
Degree of protection		IP65
Over Voltage Category		DC type II / AC type III
Dimensions* (W * H * D)(mm)		730*637*180(±4)
Weight*(kg)		59(±3)
Operating ambient temperature(°C)		-25°C-60°C(>45°C derating)
Cooling method		Fan cooling
Noise(MAX)(dB)		< 45
Max. operating altitude(m)		3000
Display		LCD+APP
Monitor		RS485 / WIFI
Warranty		5 Years/10 Years the warranty period depends on the final installations site of inverter, more info please refer to warranty policy

- 4 MPPT inputs, 120% Oversized PV input, Max 30 kW
- Inverter parallel function, up to 6 units, Max. output power up to 150kW, massive energy storage of 160.2kWh
- Support 100% three-phase unbalanced output
- Built-in change over switch, allows manual selection between Backup mode and By-pass mode for backup loads.
- The phase sequence does not matter, ensuring easier and more flexible installation
- Optional integrated physical emergency power off (EPO) switch
- Backup load transfer time ≤10ms



B14400-H/B14400-HW
14.4kWh High-voltage Battery
14.4kWh-72kWh

Technical Specification	B14400-H B14400-HW	B14400-H x2 B14400-HWx2	B14400-H x3 B14400-HWx3	B14400-H x4 B14400-HWx4	B14400-H x5 B14400-HWx5
Rated Energy*(KWh)	14.4	28.8	43.2	57.6	72
Depth of Discharge(%)	95				
Usable Energy*(KWh)	13.68	27.36	41.04	54.72	68.40
Cell Type	LFP(LiFePO4)				
Cycle Life*	≥8000 cycles				
Configuration of System	90S1P	90S2P	90S3P	90S4P	90S5P
Nominal Voltage(V)	288				
Scalability	Maximum 5 Units in Parallel				
Operating Voltage(V)	225-324				
Maximum Charge/ Discharge Current*(A)	50				
Maximum Charge/ Discharge Power*(kW)	16.2				
Operating Temperature range	Charge: 0~55°C / Discharge: -20~60°C With heating function Charge: -20~55°C / Discharge: -20~60°C				
Storage Temperature and SOC	0~35°C @SOC60%				
General Data					
Communication	RS485/CAN/Ethernet				
Relative Humidity	10% to 85% no condensing				
Operating Altitude(m)	≤2000				
Ingress Protection	IP65				
Cooling Method	Natural convection				
Weight(kg)	117	234	351	468	585
Dimension (without footbolts) (W*H*D)(mm)	730*740*179.5	(730*740*179.5) *2	(730*740*179.5) *3	(730*740*179.5) *4	(730*740*179.5) *5
Dimension (with footbolts) (W*H*D)(mm)	730*750*179.5	(730*750*179.5) *2	(730*750*179.5) *3	(730*750*179.5) *4	(730*750*179.5) *5
Installation Location	Indoor/Outdoor				
Installation Method	Floor stand				
Warranty*	12 Years				
Country of Manufacture	Made in China				
Certification	CB, CE, UKCA, LOA, SONCAP, RCM, EMC, ROHS, S-Mark, KBIA, UL IEC 62619:2022, IEC 60730-1 Appendix H, IEC/EN 62368-1, EN IEC61000-6-1/3, IEC 60529, IEC 60068-2-52 UN 38.3, MSDS				
Rated Energy*: Test conditions: 100% DOD, 0.5C charge and discharge at +25±2°C. Usable Energy*: Test conditions: 95% DOD, 0.5C charge and discharge at +25±2°C. Cycle Life*: Test conditions: 95% DOD, 0.2C charge and 0.5C discharge at +25±2°C. Maximum Charge/Discharge Current/Power*: Maximum continuous charge/discharge current and power derating are related to temperature and SOC.					
Warranty*: The standard warranty covers a period of 12 years or a Minimum Energy Throughput of 63.07 MWh, whichever comes first. Please refer to the official Hinen Warranty Policy for detailed conditions.					

- Battery parallel scalability supported, up to 5 batteries per inverter, expandable to 72kWh
- Optional battery heating design, reliable charging and discharging even in extreme cold down to -20°C
- Highly integrated BMS and battery pack design with ultra-low standby power consumption for minimal energy loss.
- Automotive-grade main controller and AFE chips, delivering high-precision monitoring and long-term operational reliability
- Top-tier Safety,5-layer Battery Protection:
①Full coverage temperature detection
②BMS intelligent control, over-temp.,over-current, over-voltage protection
③Built-in DC breaker
④Internal aerosol fire extinguisher
⑤Decompression valve
- IP65-rated design, unfazed by harsh environments
- Automatic fault isolation function ensures that a single battery fault will not affect overall system operation
- Visible energy tracking & OTA upgrade on Hinen APP