



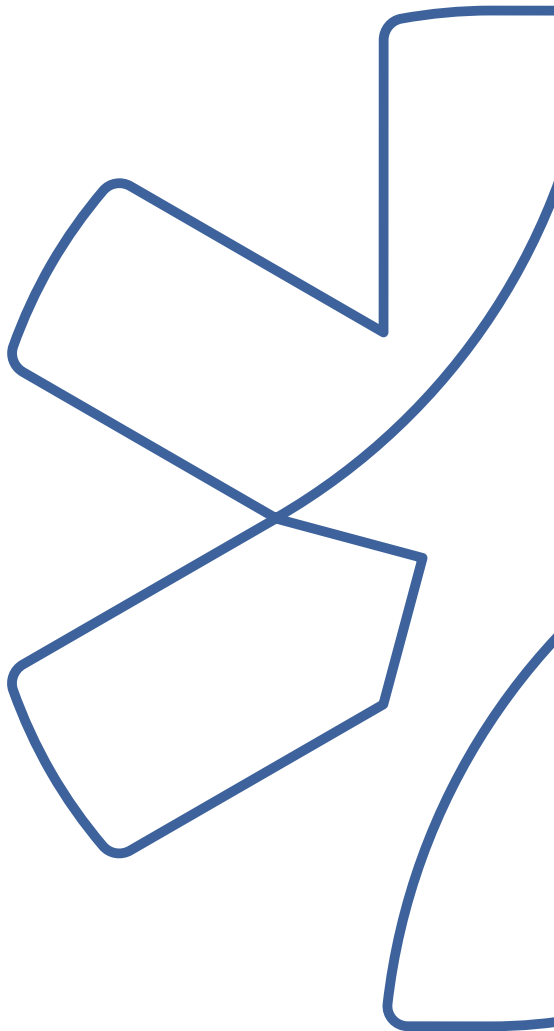
YouTube



Website

iHEMS® Intelligent Home Energy Management System

Inverter and energy storage system solutions



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Business Philosophy

Vision

Resources Integrated & Value Appreciated



Drive intelligent energy management and contribute to global energy conservation and emission reduction

Mission

About Ktech ESS

Ktech ESS Co., Ltd. is a technology-driven enterprise specializing in the research, development, manufacturing, and management of user-side power applications and energy storage solutions. The company is headquartered in Wuxi, Jiangsu Province, with branch offices and technical support centers established in multiple regions worldwide.

The principal product portfolio encompasses inverters, solar charge controllers, energy storage batteries, smart home appliances, and the intelligent Home Energy Management System iHEMS®.

The company's founder has dedicated two decades to the inverter industry, specializing in the research and development of both software and hardware technologies. This commitment has culminated in the successful launch of over twenty photovoltaic inverter products compliant with European and American standards. With a power range spanning from 3kW to 100kW, these products are designed to provide customized and comprehensive intelligent energy management solutions for residential, commercial, and industrial users.



Global Layout



Headquarters: Wuxi, China

R & D Center: Wuxi Headquarters

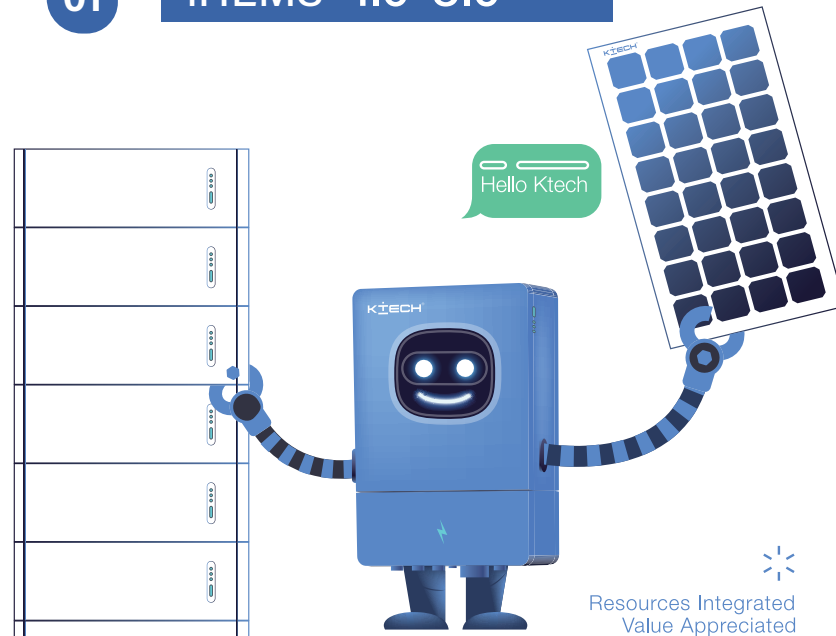
Technical Support: Wuxi Headquarters,

Shenzhen Branch, USA, Singapore, Poland, Pakistan, Brazil

Technical Strength

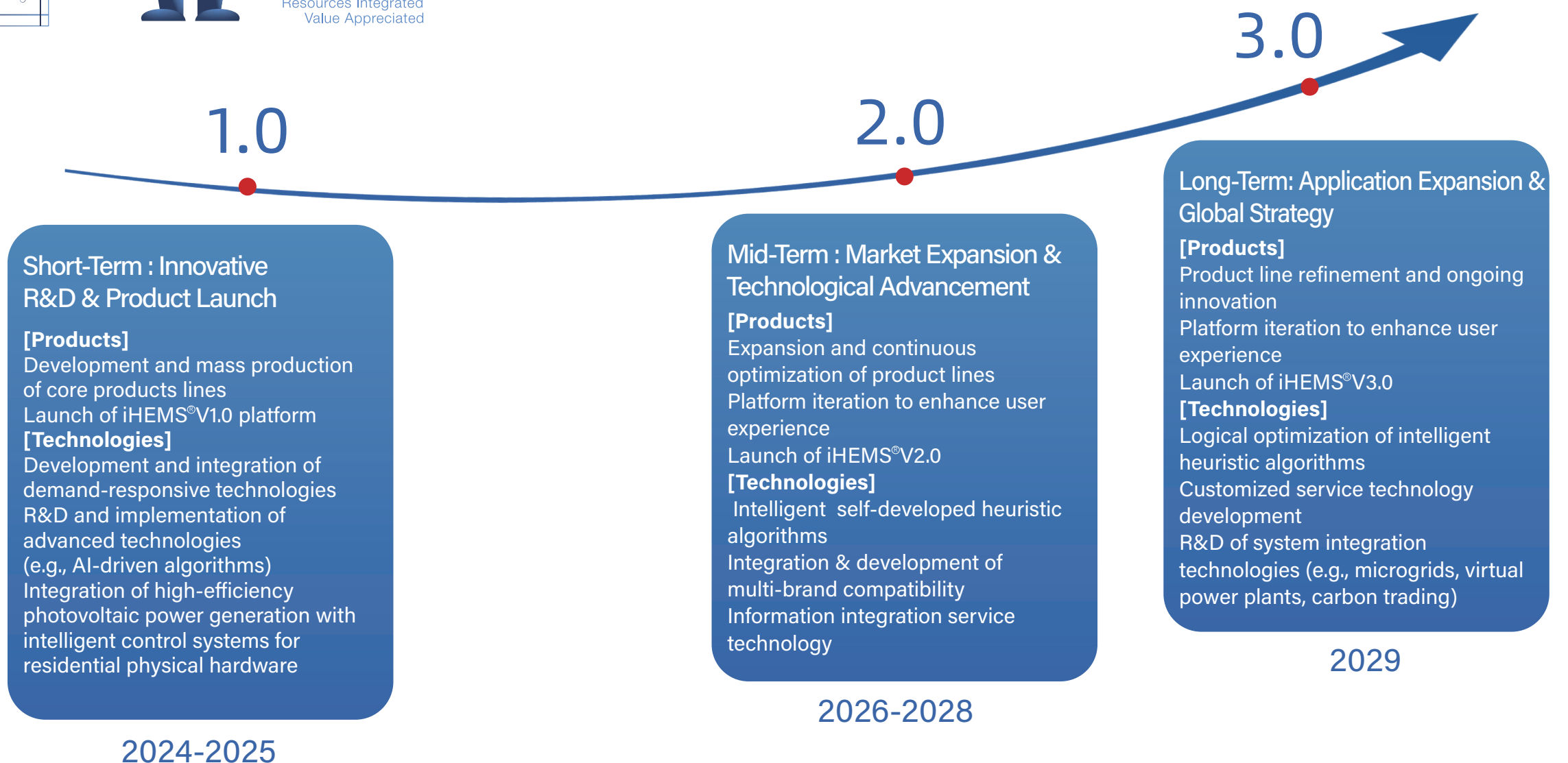
01

iHEMS® 1.0-3.0

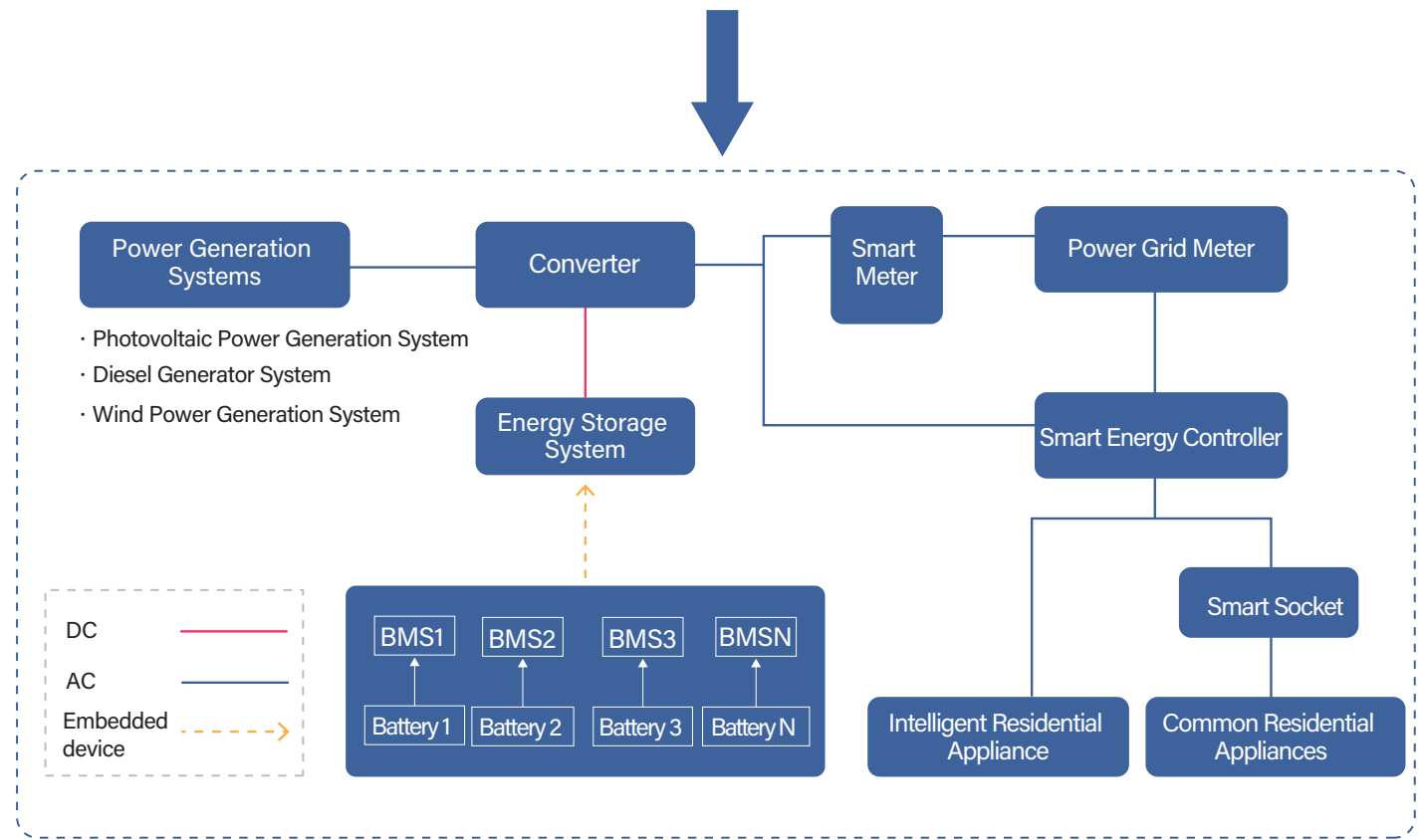


iHEMS® (Intelligent Home Energy Management System) represents an advanced smart home energy management platform. Its hardware infrastructure integrates power generation systems, converters, energy storage systems, and residential physical hardware, while the software architecture incorporates cutting-edge technologies including intelligent heuristic algorithms, smart connectivity, artificial intelligence, big data analytics, machine learning, and device interoperability compatibility integration. This system is designed to provide users with enhanced efficiency and reliability in energy management.

The iHEMS® system not only manages and controls residential physical hardware, but is also engineered to accommodate future expanded application scenarios, thereby delivering comprehensive energy management services. It empowers household users to optimize energy consumption patterns, reduce energy expenditures, and simultaneously contribute to energy conservation and emissions reduction efforts in alignment with global sustainable development objectives.



Energy Control Center

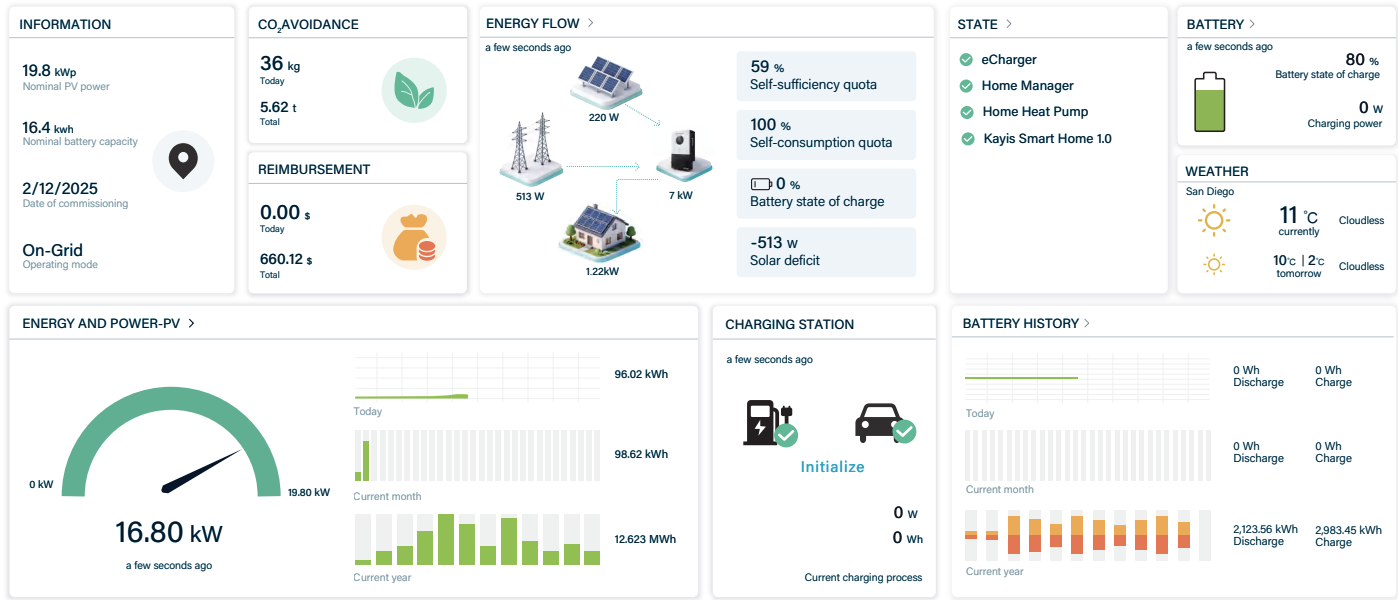


02 WiseHome Cloud Platform

The WiseHome Cloud Platform is an intelligent management system developed by Ktech, engineered to optimize the performance of energy storage systems, inverters, maximum power point tracking (MPPT) devices, and household appliances. Both commercial and residential users can leverage this platform for efficient management of photovoltaic power stations, facilitating real-time monitoring of power generation, equipment status, and fault diagnosis capabilities.



Kayis iHEMS – AI Energy



● For Residential Users

Access transparent power generation data and operational maintenance support to ensure system stability and consistent returns.

● For Commercial and Industrial Users

Improve operational efficiency, reduce costs, and enhance power generation benefits alongside customer satisfaction.



The WiseHome System enables real-time monitoring of the complete energy process—from power generation to consumption—providing comprehensive energy management solutions for both residential and commercial applications.

01 The system monitors real-time power consumption of loads and operational status of photovoltaic-storage equipment, facilitating immediate detection, diagnosis, and resolution of various faults.

02 Cloud-based services enable remote monitoring and maintenance functionalities, permitting users to remotely control devices, configure automated scenarios, and intelligently adjust equipment parameters to optimize energy utilization efficiency and reduce operational expenditures.

03 WiseHome generates comprehensive data analysis reports to support users in achieving energy conservation objectives.

Our R&D prowess is distinguished by a core team of eminent experts, including PhDs in engineering, senior engineers, and graduate master’s supervisors. This team possesses profound academic qualifications complemented by extensive scientific research experience and technical expertise.

01

R&D Team Composition

- Comprising over 50 R&D professionals
- Encompassing hardware engineers, software engineers, embedded systems engineers, and structural engineers
- Incorporating technical support engineers for pre-sales, in-sales, and after-sales services

03

Team Profile: Education & Age

Our R&D team combines extensive experience with strong innovation capabilities:

- Advanced Degrees: 2 PhDs, 4 Master's degree holders.
- Elite Backgrounds: 7 members with overseas or leading enterprise backgrounds.
- Top-Tier Education: 8 graduates from Double First-Class universities.
- Team Dynamism: Average age is 32.

02

R&D Achievements & Strength

- Proprietary Platform: The self-developed WiseHome energy management system is protected by multiple patents.
- Extensive IP Portfolio: Hold 5 invention patents and over 80 utility model patents.
- Global Product Reach: Offer complete series of hybrid inverters for home energy storage, certified to both EU and US standards.

04

Industry Recognition

- Award-Winning R&D: Our team has received multiple industry honors for innovation and product excellence.
- Certified Tech Enterprise: The company is officially recognized as a Science and Technology-based SME.

20

+YEARS

R&D EXPERIENCE IN THE
NEW ENERGY INDUSTRY

50

+PEOPLE

R&D PROFESSIONALS

7

MAJOR TECHNICAL
SUPPORT CENTERS

WUXI HEADQUARTERS, SHENZHEN BRANCH,
USA, SINGAPORE, POLAND, PAKISTAN, BRAZIL

Quality Assurance

Quality Control System

Standardized Processes: Utilize internationally recognized quality management systems to formalize production and service workflows, ensuring adherence to established standards at each operational phase.

End-to-End Monitoring: From raw material procurement to production, inspection, packaging, and shipment, every step is rigorously supervised by dedicated specialists.

Automation & Testing Equipment: Employ cutting-edge automated production lines and precision testing instruments to ensure manufacturing accuracy and consistent product quality.

Premium Material Selection

Meticulously Sourced for Uncompromising Quality. We consistently procure top-tier raw materials—including Infineon, TI, Toshiba, and YAGEO—while sustaining long-term partnerships with globally recognized industry leaders. This ensures strict adherence to rigorous international standards across all product components.

Our dedicated material procurement team conducts thorough vetting of each raw material to ensure compliance with functional specifications, pursuing excellence in every aspect of product development.

Rigorous Quality Assurance

Stringent Testing for 99% Product Qualification Rate: Each inverter undergoes a comprehensive series of rigorous functional, environmental adaptability, and performance assessments prior to factory release, including:

- **Overload Protection Testing:** Ensures uninterrupted inverter operation under overload conditions.
- **Efficiency Validation:** Confirms the inverter's conversion efficiency complies with industry-leading benchmarks.
- **Electrical Performance Verification:** Certifies that output voltage, current, and power parameters strictly adhere to specifications.
- **High/Low Temperature Endurance Testing:** Guarantees operational stability across diverse environments and reliability under extreme climatic conditions.
- **48+ Hour Full-Load Continuous Operation Test:** Demonstrates sustained performance efficiency during prolonged high-intensity operation.
- **Electromagnetic Compatibility (EMC) Testing:** Validates absence of electromagnetic interference emissions to other devices while ensuring conformity with global electrical standards.

Stringent Compliance with International Standards

We guarantee that every inverter satisfies rigorous international certifications, ensuring safety, reliability, and superior performance.

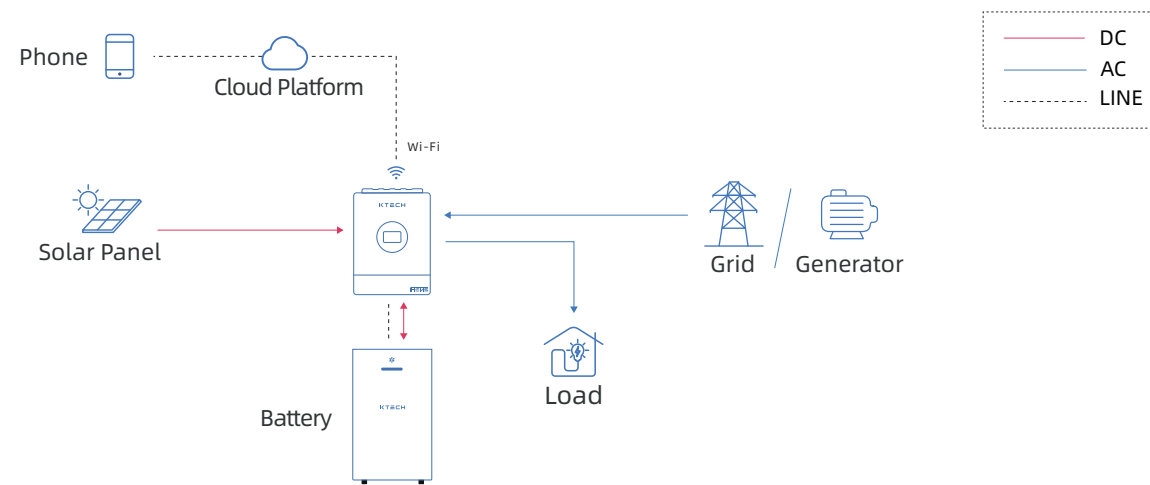
- **U.S. Market Certification:** UL Certification, conforming to the high-standard requirements of the U.S. market.
- **European Market Certification:** IEC 62109-1/2 and CE Certification, adhering to energy efficiency and safety regulations in the European market.
- **Globally Recognized Certifications:** EN50549, FCC Class B (Electromagnetic Compatibility), and RoHS (Environmental Directive)—compliant with market access requirements across numerous countries.
- **Tailored Certification Support:** For specialized markets (e.g., Australia, Southeast Asia), we offer end-to-end certification assistance to expedite local compliance.

Whether for standard certification needs or customized solutions, we provide comprehensive support to facilitate your efficient expansion into global markets.

Solution

• Residential Off-Grid Photovoltaic Energy Storage Solution

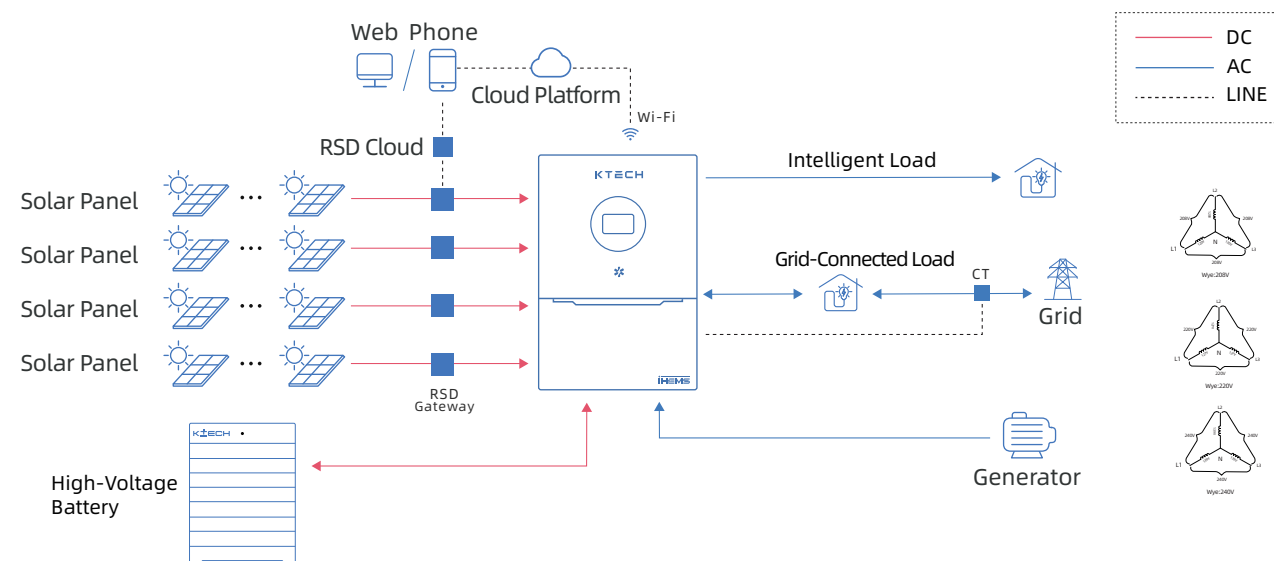
This residential off-grid solar photovoltaic energy storage system is particularly suitable for private residences in regions with elevated electricity tariffs or insufficient grid infrastructure. During periods of adequate solar irradiation, the system supplies power to designated loads while simultaneously charging the battery bank. When solar energy is unavailable, grid electricity can be utilized to power the loads—thereby reducing electricity consumption, decreasing dependence on the grid, and alleviating power supply challenges during peak demand periods.



• Small Enterprise Energy Storage Solution

This three-phase high-voltage inverter energy storage system is specifically designed for small enterprises and industrial zones experiencing unreliable grid power supply and substantial time-of-use (TOU) electricity price differentials.

When an enterprise operates an associated solar power plant under sufficient sunlight conditions, the solar-generated electricity can be directly supplied to high-power loads on production lines through the three-phase high-voltage inverter. Any surplus electricity is subsequently stored in the energy storage batteries, thereby eliminating energy wastage.



• Hybrid Photovoltaic Energy Storage Solution

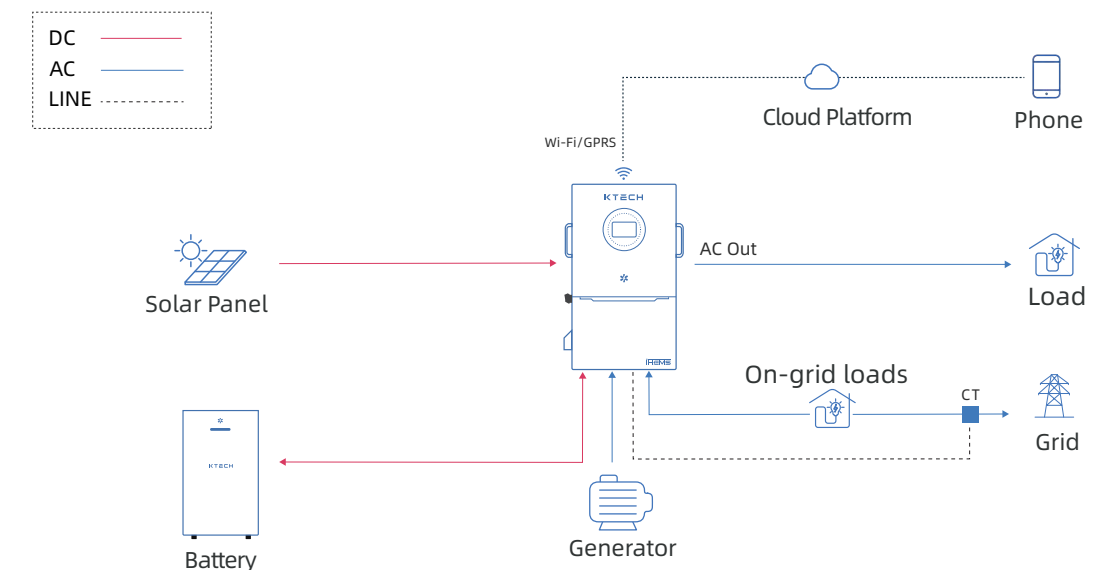
This hybrid inverter, capable of both off-grid and grid-connected operation, addresses two primary application scenarios:

- Residential properties in rural or remote areas with unstable grid power supply:

It fulfills daily household electricity demands, automatically switches to off-grid mode to ensure continuous power during outages, and feeds surplus energy back to the grid—thereby maximizing end-user revenue.

- Small farms, homestays, and similar establishments:

It utilizes self-consumed solar power to reduce electricity costs, guarantees uninterrupted operation of critical equipment during grid failures, and balances grid-tied efficiency with off-grid emergency backup—catering to the flexible power supply needs of small-to-medium electricity consumption scenarios.

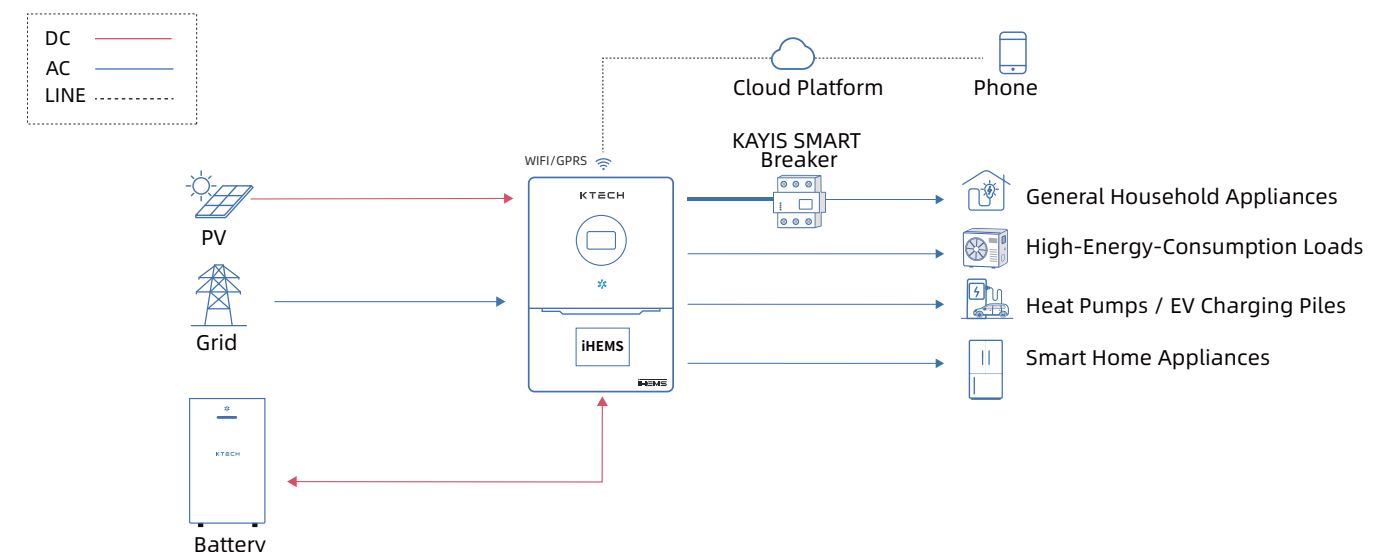


• iHEMS Smart Energy Management Platform Solution

Equipped with the built-in iHEMS intelligent energy management system, KTECH ESS storage inverters enable unified monitoring and intelligent dispatching of solar power, grid electricity, batteries and household loads.

Based on solar power generation output, power consumption demand, battery status and electricity price strategies, the system automatically optimizes energy distribution to maximize the efficient utilization of clean energy.

Users can check real-time system operating status and remotely adjust device operation modes via cloud platform or mobile APP. When paired with KAYIS SMART Breaker, it supports hierarchical control over common household appliances, high-power loads, heat pumps, charging piles and smart home devices, realizing intelligent, visualized and highly efficient household power consumption management.



Original Design Manufacturer (ODM) Customization Services Provided



01 CUSTOMIZED SOLUTIONS TO CATER TO DIVERSE NEEDS

We provide comprehensive Original Design Manufacturing (ODM) customization services to our clients, delivering end-to-end solutions from conceptual design to mass production based on their specific requirements. Whether regarding product aesthetics, functional features, technical specifications, or packaging and branding customization, we offer tailored solutions that align precisely with client objectives, ensuring each project thoroughly addresses their distinctive needs.

02 PROFESSIONAL DESIGN TEAM SUPPORT

Our R&D team possesses extensive expertise in delivering customized innovative design solutions tailored to client requirements. For novel product design, optimization, and enhancement, we offer professional consultation and design support—guaranteeing exceptional performance across functionality, aesthetics, and market competitiveness.



03 FLEXIBLE PRODUCTION CAPACITY

We possess robust production capabilities and flexible manufacturing lines, which enable us to efficiently produce large volumes of customized products. Furthermore, we employ advanced production management systems to ensure that lead times, quality standards, and delivery schedules for custom products consistently meet client requirements.

04 STRICT QUALITY MANAGEMENT

Throughout the ODM customization process, we consistently maintain stringent quality control standards. From raw material procurement to manufacturing production, each stage undergoes rigorous quality inspections—ensuring that customized products satisfy elevated standards regarding performance, aesthetics, and service life.

06 PROTECTION OF CUSTOMER PRIVACY

We accord the highest priority to safeguarding our clients' intellectual property and trade secrets. Within ODM collaborations, we implement comprehensive measures to ensure the complete protection of our clients' design schemes and proprietary technologies. We execute stringent confidentiality agreements with clients to guarantee that their innovative concepts and technologies remain secure against any form of infringement.

05 END-TO-END COMMUNICATION AND FOLLOW-UP PROCEDURES

Throughout the ODM customization process, we deliver comprehensive end-to-end project management support—guaranteeing precise and thorough implementation of all client specifications. Our dedicated project managers maintain proactive communication channels, providing regular progress updates to ensure seamless execution of the customization workflow.

07 ADVANTAGES OF CUSTOMIZED SERVICES

- Precisely addressing market demands: Procure products that meticulously align with specified requirements.
- Distinctive brand value enhancement: Accentuate clients' brand image and unique market differentiation.
- Dedicated after-sales support: Custom-engineered products qualify for exclusive post-sales service and dedicated technical assistance.

Five Principal Customization Orientations for Original Design Manufacturing



Appearance

Customizable Elements:
Patterns/Colors/Dimensions
/Materials
Craftsmanship Options:
Glossy Finish, Matte Finish



Specifications

Parameters/Performance



Structure

Internal Architecture
Integrated Configuration
Wall-Mounted or Stackable
Arrangement



Program & Interface

APP Control Interface: Configurable
elements (Colors, Layout, Text)
Functional Specifications



Communication Protocol

Specialized Customization of Communication Protocols

"ODM SERVICES"

Product

EMS
Kayis Series



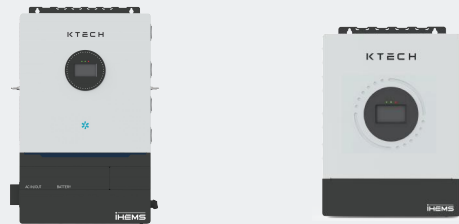
Hybrid Inverter
KE-N Series



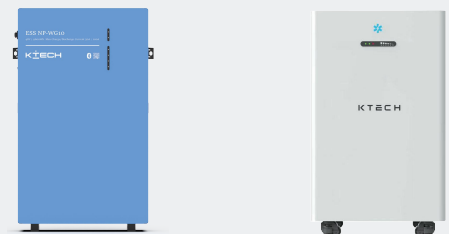
Grid-tied Inverter
KE-A Series



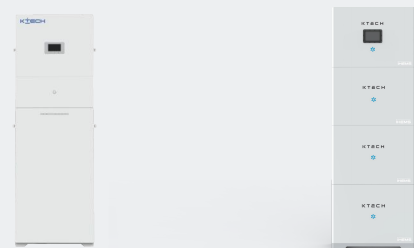
Off-Grid Inverter
KE-F Series



Battery
NP Series



All-in-one ESS Inverter
PowerX Series





iHEMS1.0

01 Dynamic Tariff Integration with Multiple Global Power Operators

This enhances the functionality of our inverters with built-in iHEMS when used in the following countries.

We have reached

110 in the United States, 15 in Canada, 14 in Poland, 9 in Romania, and 5 in Bulgaria.
Targets: 21 contacts in the United Kingdom, 25 in Spain, and 32 in Australia.

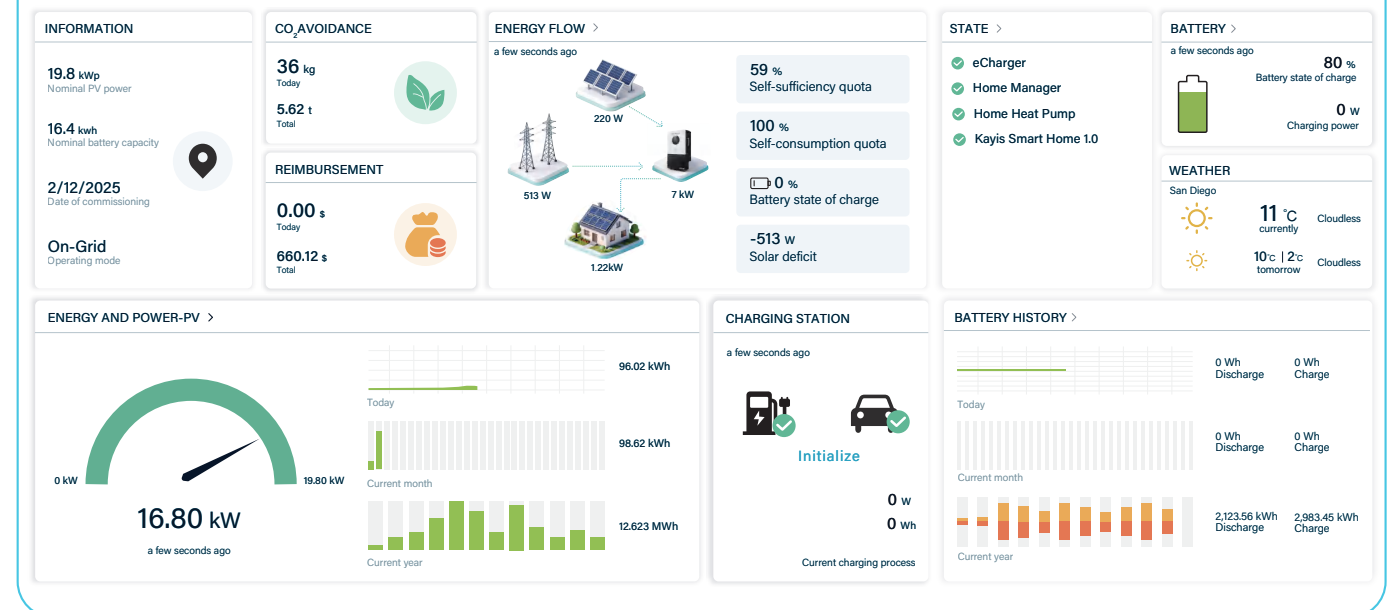
02 Full Support for Customer Product Adaptation to the EEBUS Communication Protocol

- Assist customers in accessing four types of system scenarios: fully enclosed, semi-enclosed, open, and non-intelligent, and resolve the pain points of business restrictions caused by various technical barriers.
- Help energy storage pack customers quickly build a product ecosystem, creating more possibilities for business growth.
- Provide a cooperative development model for local agents to ensure the localization of VPP resources, making it easier to stand out in the fierce market competition.

03 AI Mode Subscription Service

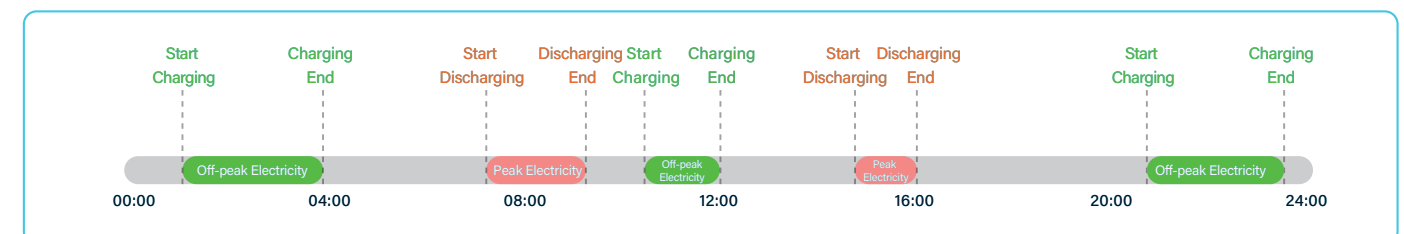
- Exclusive discount on VPP value-added service subscriptions for agent customers.
- Customized exclusive AI featured functions.

Kayis iHEMS— AI Energy

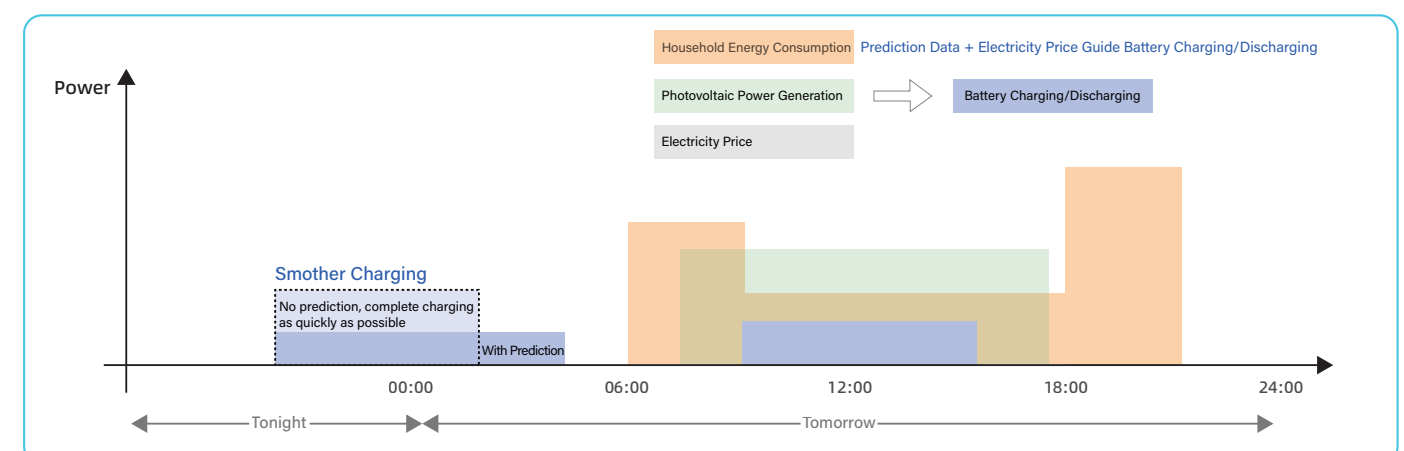


AI Mode (Dynamic Tariff Capture + 48-Hour Proactive Forecasting)

Once users set up the power utility information in one go, the system will automatically control battery charging and discharging based on electricity tariffs, and perform coordinated energy scheduling with the photovoltaic system and household loads, thus helping users save on electricity costs in a fully automated manner.



By forecasting the next day's household electricity consumption and photovoltaic (PV) power generation, the system can accurately calculate the optimal charging capacity during off-peak periods, thereby improving the self-consumption rate, reducing battery charge-discharge cycles, and extending battery service life.





Split-Phase Hybrid Inverter

For The American Grid

KE-N Series



Models:

- KE-7KD5LSUN
- KE-7K5D5LSUN
- KE-8KD5LSUN
- KE-10KD5LSUN
- KE-12KD5LSUN



Features

- Supports up to 10 units in parallel
- Compatible with lead-acid / lithium batteries, suitable for multiple energy storage solutions
- Supports parallel connection of multiple batteries
- Adopts VPP technology
- Supports WiFi / Bluetooth / 4G communication
- Ingress Protection(IP)Rating:IP66; suitable for outdoor installation environments

Datasheet

Model	KE-7KD5LSUN	KE-7K5D5LSUN	KE-8KD5LSUN	KE-10KD5LSUN	KE-12KD5LSUN
Parallel Operation Mode					
Max. Parallel Units (pcs)	10				
AC Input / Output					
Rated Input/Output Active Power (W)	7000	7500	8000	10000	12000
Rated Input Apparent Power (VA)	7700	8250	8800	11000	13200
Rated Input/Output Current (A)	29.2	31.25	33.3	41.7	50
Max. Input/Output Current (A)	32.1	34.4	36.7	45.8	55
Max. Bypass Current (Grid to Load) (A)	63				
Peak Power (Off-Grid)	2 Times Of Rated Power, 10s				
Power Factor Adjustment Range	0.8 leading ~ 0.8 lagging				
Rated Voltage (V)	110/220,120/240, 0.88Un<U<1.1Un				
Frequency (Hz)	50/45-55, 60/55-65				
Connection Type	2L+N+PE				
Total Current Harmonic Distortion (THDi)	<3% (Rated power)				
DC Current Output	<0.5% x Rated current				
Transfer Time (Bypass and Inverter) (ms)	10				
Battery Parameters					
Battery Type	Lead-acid or Lithium Iron Phosphate Battery				
Max. Charging Current (Adjustable) (A)	190			200	
Max. Discharging Current (A)	190			200	
Charging Voltage Range (V)	40-60				
Lithium Battery Charging Strategy	BMS Adaptive				
Battery Input Port	1				
Solar Charging					
Number of MPPT Trackers	2/1+1	2/2+2			
Max. PV Open-Circuit Voltage (V)	550				
Start-up Voltage (V)	100				
Rated PV Voltage (V)	375				
MPPT Voltage Range (V)	125-425				
Max. PV Input Power (W)	10500	11250	12000	15000	18000
Max. PV Input Current (A)	17+17	26+26			
Max. PV Input Short-Circuit Current (A)	28+28	40+40			
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	96.5%				
MPPT Tracking Efficiency	99%				
Device Protection					
Integrated Protection	Over-temperature protection, overload protection, short-circuit protection, PV overvoltage protection, PV overcurrent protection, battery overvoltage protection, leakage current protection, anti-islanding protection, ground fault detection protection, surge protection, GFCI				
Overvoltage Category	DC Type II / AC Type III				
General					
Ingress Protection (IP) Rating	IP66				
Operating Temperature Range	-40~60℃ (>45℃ Derating)				
Humidity Range	0~100% RH (Non-condensing)				
Noise Level @ 1m	<45dB @ 25℃ (77°F)				
Type of Cooling	Natural cooling				
Communication Port	Built-in: RS485/CAN ; Option 1: WIFI+ Bluetooth, Option 2: 4G + Bluetooth				
Dimensions(HxWxD)(mm)	800 x 445 x 256				
Weight (kg)	48				
Operating Altitude (m)	<2000				
Warranty	5 Years /10 Years				
Certification					
Overview	UL1741, IEEE 1547				



Split-Phase Hybrid Inverter

For The North American Grid

Kayis Series



Models:

- KE-7KD6LSUN
- KE-7K5D6LSUN
- KE-8KD6LSUN
- KE-10KD6LSUN
- KE-12KD6LSUN



Features

- Supports on-grid/off-grid operation
- Supports up to 10 units parallel connection
- Supports multi-battery parallel access
- Supports VPP technology
- Supports AFCI, GFCI, RSD and other protection functions
- Supports WiFi/Bluetooth/4G communication
- Ingress Protection(IP)Rating:IP66
- Compliant with UL1741 / IEEE1547 certification requirements
- All circuit breakers built-in

Datasheet

Model	KE-7KD6LSUN	KE-7K5D6LSUN	KE-8KD6LSUN	KE-10KD6LSUN	KE-12KD6LSUN
Parallel Operation Mode					
Max. Number of Parallel Units (pcs)	10				
AC Input / Output					
Rated Input/Output Active Power (W)	7000	7500	8000	10000	12000
Rated Input Apparent Power (VA)	7700	8250	8800	11000	13200
Rated Input/Output Current (A)	29.2	31.25	33.3	41.7	50
Max. Input/Output Current (A)	32.1	34.4	36.7	45.8	55
Max. Bypass Current (Grid to Load) (A)	63				
Peak Power (Off-Grid)	2 Times Of Rated Power, 10s				
Power Factor Adjustment Range	0.8 leading ~ 0.8 lagging				
Rated Voltage (V)	110/220,120/240, 0.88Un<U<1.1Un				
Frequency (Hz)	50/45-55, 60/55-65				
Connection Type	2L+N+PE				
Total Current Harmonic Distortion (THDi)	<3% (Rated power)				
DC Current Output	<0.5% x Rated current				
Transfer Time (Bypass and Inverter) (ms)	10				
Battery Parameters					
Battery Type	Lead-acid or Lithium Iron Phosphate Battery				
Max. Charge Current (Configurable) (A)	190			200	
Max. Discharge Current (A)	190			200	
Charge Voltage Range (V)	40-60				
Lithium Battery Charging Strategy	BMS Adaptive				
Battery Input Port	1				
Solar Charging					
Number of MPPT Trackers	2/1+1	2/2+2			
Max. PV Open-Circuit Voltage (V)	550				
Start-up Voltage (V)	100				
Rated PV Voltage (V)	375				
MPPT Voltage Range (V)	125-425				
Max. PV Input Power (W)	10500	11250	12000	15000	18000
Max. PV Input Current (A)	17+17	26+26			
Max. PV Input Short-Circuit Current (A)	28+28	40+40			
Efficiency					
Maximum Efficiency	97.6%				
Euro Efficiency	96.5%				
MPPT Tracking Efficiency	99%				
Device Protection					
Integrated Protection	Over-temperature protection, overload protection, short-circuit protection, PV over-voltage protection, PV over-current protection, battery over-voltage protection, leakage protection, anti-islanding protection, ground fault detection, surge protection, AFCI, GFCI, RSD compatibility.				
Overvoltage Category	DC Type II / AC Type III				
General					
Ingress Protection (IP) Rating	IP66				
Operating Temperature Range	-40~60℃ (>45℃ Derating)				
Humidity Range	0~100% RH (Non-condensing)				
Noise Level @ 1m	<45dB @ 25℃ (77°F)				
Type of Cooling	Natural cooling				
Communication Port	Built-in: RS485/CAN; Option 1: WIFI+ Bluetooth, Option 2: 4G + Bluetooth				
Dimensions(HxWxD)(mm)	957 x 445 x 256				
Weight (kg)	51				
Operating Altitude (m)	<2000				
Warranty	5 Years/10 Years				
Certification					
Overview	UL1741, IEEE 1547				



Low-Voltage Three-Phase Hybrid Inverter

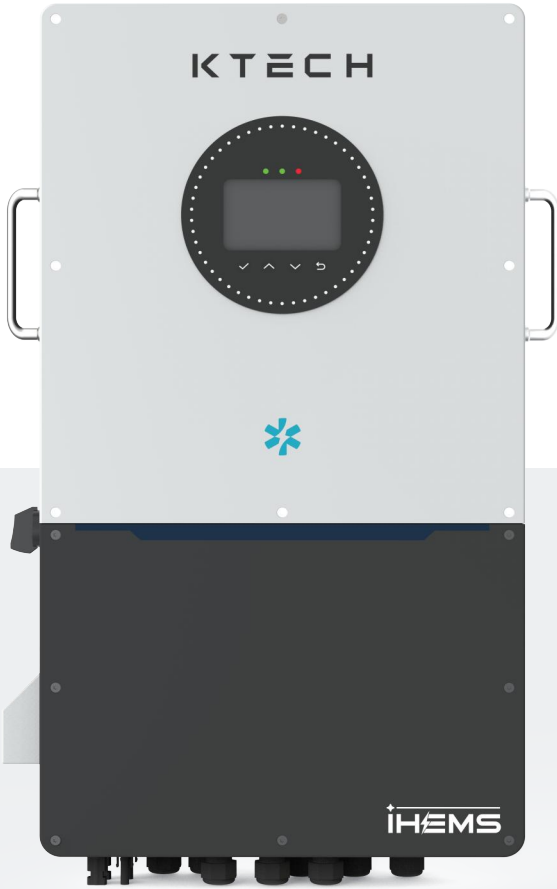
For The American Grid

Kayis Series



Models:

KE-6KD5L3UN	KE-8KD5L3UN
KE-7KD5L3UN	KE-10KD5L3UN
KE-7K5D5L3UN	KE-12KD5L3UN



Features

- The AC-DC matching ratio can reach 2 times
- MPPT tracking efficiency up to 99%
- Supports lead-acid / lithium battery connection
- Supports multiple communication interfaces
- Compatible with AFCI, GFCI and RSD functions
- Ingress Protection(IP)Rating:IP66

Datasheet

Model	KE-6KD5L3UN	KE-7KD5L3UN	KE-7K5D5L3UN	KE-8KD5L3UN	KE-10KD5L3UN	KE-12KD5L3UN
Battery Input Data						
Battery Type	Lead-acid or Lithium Iron Phosphate Battery					
Battery Voltage Range(V)	40-60					
Max.Charging Current(A)	135	150	160	190	210	240
Max.Discharging Current(A)	135	150	160	190	210	240
Charging Strategy for Li-ion Battery	BMS Adaptive					
Number of Battery Input	1					
PV String Input Data						
Max. PV Access Power (W)	12000	14000	15000	16000	20000	24000
Max. PV Input Power (W)	9600	11200	12000	12800	16000	19200
Max. PV Input Voltage (V)	800					
Start-up Voltage (V)	160					
MPPT Voltage Range (V)	200-650					
Rated PV Input Voltage (V)	550					
Max. Operating PV Input Current (A)	20+20				26+26	
Max. Input Short-Circuit Current (A)	30+30				40+40	
No. of MPPT Trackers/No. of Strings MPPT Tracker	2/1+1				2/2+2	
AC Input/Output Data						
Rated AC Input/Output Active Power (W)	6000	7000	7500	8000	10000	12000
Max. AC Input/Output Apparent Power (VA)	6600	7700	8250	8800	11000	13200
Rated AC Input/Output Current (A)	9.1/8.7	10.6/10.1	11.4/10.8	12.2/11.6	15.2/14.5	18.2/17.4
Max.AC Input/Output Current (A)	10/9.6	11.7/11.1	12.5/11.9	13.4/12.8	16.7/16	20/19.2
Max.Continuous AC Passthrough (grid to load) (A)	63					
Peak Power (off-grid) (W)	2 Times Of Rated Power, 10s					
Power Factor Adjustment Range	0.8 leading ~ 0.8 lagging					
Rated Input/Output Voltage/Range (V)	120/208 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	<3% (Rated power)					
DC Injection Current	<0.5% In					
Efficiency						
Max. Efficiency	97.6%					
Euro Efficiency	97%					
MPPT Tracking Efficiency	99%					
Equipment Protection						
Integrated Protection	DC reverse polarity protection, DC component monitoring, DC switch, AC output overcurrent protection, AC output overvoltage protection, AC output short-circuit protection, insulation resistance detection, leakage current protection, thermal protection, anti-islanding protection, AFCI, GFCI, RSD compatible					
Surge Protection Level	DC Type II / AC Type III					
Interface						
Communication Interface	RS485/CAN					
Monitor Mode	WIFI/Bluetooth/4G					
General						
Operating Temperature Range	-40~60°C (>45°C Derating)					
Humidity Range	0~100% RH (Non-condensing)					
Operating Altitude(m)	<2000					
Noise Level @ 1m	≤55dB @ 25°C (77°F)					
Ingress Protection(IP)Rating	IP66					
Inverter Topology	Non-Isolated					
Dimensions(HxWxD) (mm)	638×363×230					
Weight(kg)	58					
Type of Cooling	Natural cooling					
Warranty	5 Years/10 Years					
Certification						
Overview	UL1741 , IEEE 1547					



High-Voltage Three-Phase Hybrid Inverter

For The American Grid

Kayis Series



Models:

KE-30KD5H3UN

KE-50KD6H3UN

KE-30KD6H3UN

KE-60KD6H3UN

KE-40KD6H3UN



Features

- The AC-DC matching ratio can reach 2 times
- Supports 150-800V high-voltage batteries
- Supports diesel generator connection
- Up to 10 units parallel operation supported
- MPPT tracking efficiency up to 99%
- Compatible with AFCI, GFCI and RSD
- Ingress Protection(IP)Rating:IP66

Datasheet

Model	KE-30KD5H3UN	KE-30KD6H3UN	KE-40KD6H3UN	KE-50KD6H3UN	KE-60KD6H3UN
PV Input Data					
Max. PV Input Power (W)	60000		80000	100000	120000
Max. PV Input Voltage (V)	1000		1000	1000	1000
Start-up Voltage (V)			180		
MPPT Voltage Range (V)			150-850		
Rated PV Input Voltage (V)			600		
Max.Operating PV Input Current (A)			40		
Max.Input Short-Circuit Current (A)			65		
Number of MPPT Trackers	3		4		
Max.Number of Input Strings	2/2/2		2/2/2/2		
Battery Parameters					
Battery Type			Lithium Iron Phosphate Battery		
Rated Battery Voltage (V)			150~800		
Max.Charge/Discharge Current (A)			70*2		
Parallel Operation Mode					
Max.Number of Parallel Units (pcs)			10		
AC Input/Output					
Rated Input/Output Active Power (W)	30000	30000	40000	50000	60000
Rated Input Apparent Power (VA)	33000	33000	44000	55000	33000
Rated Input/Output Current (A)	83.4	36.1	48.1	60.2	72.2
Max. Input/Output Current (A)	91.7	39.7	52.9	66.2	79.4
Max. Bypass Current (Grid to Load) (A)			200		
Peak Power (Off-Grid)	1.6 Times Of Rated Power, 10s		1.5 Times Of Rated Power, 10s		
Power Factor Adjustment Range			0.8 leading ~ 0.8 lagging		
Rated Voltage (V)	208 / 220 / 240		277/480		
Frequency (Hz)			50 (45-55) / 60 (55-65)		
Connection Type			3L/N/PE		
Total Current Harmonic Distortion (THDi)			<3%(Rated power)		
DC Current Output			<0.5% x Rated current		
Transfer Time (Bypass to Inverter) (ms)			10		
Efficiency					
Max.Efficiency			97.8%		
Euro Efficiency			97%		
MPPT Tracking Efficiency			99%		
Device Protection					
Integrated Protection			DC reverse polarity protection, DC component monitoring, DC switch, AC output overcurrent protection, AC output overvoltage protection, AC output short-circuit protection, insulation resistance detection, leakage current protection, thermal protection, anti-islanding protection, AFCI, GFCI, RSD compatible		
Surge Protection Level			DC Type II / AC Type III		
General					
Ingress Protection (IP) Rating			IP66		
Operating Temperature Range			-40~60 °C (>45°C Derating)		
Humidity Range			0~100% RH (Non-condensing)		
Noise Level @ 1m			<45dB @ 25°C (77°F)		
Type of Cooling			Natural cooling		
Communication Port			RS485/CAN; Option 1: WIFI + Bluetooth;Option 2: 4G + Bluetooth		
Dimensions(HxWxD)(mm)			776x696x320 (Excluding Connectors and Brackets)		
Weight (kg)			96		
Altitude (m)			<2000		
Warranty			5 Years/10Years		
Certification					
Overview			UL1741, IEEE 1547		



Single-Phase Hybrid Inverter

For European Grid

KE-N Series



Models:

KE-3KD5LETN

KE-5KD5L1EN

KE-3KD5L1EN

KE-6KD5L1EN

KE-3K6D5L1EN



Features

- Supports up to 10 units in parallel
- Supports diesel generator connection
- Supports charge and discharge settings for 6 time periods
- MPPT tracking efficiency up to 99%
- Supports lead-acid / lithium battery connection
- Supports WiFi / Bluetooth / 4G communication
- Ingress Protection(IP)Rating:IP66

Datasheet

Model	KE-3KD5LETN	KE-3KD5L1EN	KE-3K6D5L1EN	KE-5KD5L1EN	KE-6KD5L1EN
Parallel Operation Mode					
Max. Number of Parallel(Units)	10				
AC Input/Output					
Rated Input/Output Active Power (W)	3000	3000	3600	5000	6000
Rated Input Apparent Power (VA)	3300	3300	3960	5500	6600
Rated Input/Output Current (A)	13.7/13.1	13.7/13.1	16.4/15.7	22.8/21.8	27.3/26.1
Max. Input/Output Current (A)	15/14.4	15/14.4	18/17.3	25/24	30/28.7
Max. Bypass Current (Grid to Load) (A)	45				
Peak Power (Off-Grid)	2 Times Of Rated Power, 10s				
Power Factor Adjustment Range	0.8 leading ~ 0.8 lagging				
Rated Voltage (V)	220/230, 0.88Un < U < 1.1Un				
Frequency (Hz)	50/45-55, 60/55-65				
Connection Type	L+N+PE				
Total Current Harmonic Distortion (THDi)	<3% (Rated power)				
DC Current Output	<0.5% X Rated current				
Transfer Time (Bypass and Inverter) (ms)	10				
Battery Parameters					
Battery Type	Lead-acid or Lithium Iron Phosphate Battery				
Max. Charge Current (Configurable) (A)	125	62.5	75	105	125
Max. Discharge Current (A)	125	62.5	75	105	125
Rated Battery Voltage (V)	24	48			
Charging Voltage Range (V)	20-30	40-60			
Lithium-ion Battery Charging Strategy	BMS Adaptive				
Battery Input Ports	1				
Solar Charging					
Number of Circuits	2/1+1				
Max. PV Open-Circuit Voltage(V)	550				
Start-up Voltage (V)	100				
Rated PV Voltage (V)	370				
MPPT Voltage Range (V)	125-475				
Max. PV Input Power (W)	4800	4800	5760	8000	9600
Max. PV Input Current (A)	18+18				
Max. PV Input Short-Circuit Current (A)	27+27				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	96.5%				
MPPT Tracking Efficiency	99%				
Device Protection					
Integrated Protection	Over-temperature protection, overload protection, short-circuit protection, PV overvoltage protection, PV overcurrent protection, battery overvoltage protection, leakage current protection, anti-islanding protection, ground fault detection protection, surge protection, GFCI				
Surge Protection Level	DC Type II / AC Type III				
General					
Ingress Protection (IP) Rating	IP66				
Operating Temperature Range	-40~60 °C (>45°C Derating)				
Humidity Range	0~100% RH (Non-condensing)				
Noise Level @ 1m	<45dB @ 25°C (77°F)				
Type of Cooling	Natural cooling				
Communication Port	RS485/CAN; Option 1: WIFI+ Bluetooth, Option 2: 4G + Bluetooth				
Dimensions(HxWxD)(mm)	493×400×150 (Excluding connectors and mounting brackets)				
Weight (kg)	20				
Operating Altitude (m)	<2000				
Warranty	5 Years/10Years				
Certification					
Overview	CE-LVD EN IEC 62109-1/-2,CE-EMC EN IEC 61000-6-1/-3 ,RoHS ,VOC IEC 62920 , EN 50549				



Low-Voltage Three-phase Hybrid Inverter

For European Grid

KE-N Series



Models:

KE-5KD5L3EN

KE-8KD5L3EN

KE-6KD5L3EN

KE-10KD5L3EN

KE-7K5D5L3EN

KE-12KD5L3EN



Features

- Enhanced insulation resistance testing technology
- Compatible with Virtual Power Plant (VPP) Technology
- Support higher charge-discharge current
- Support diesel generator connection
- MPPT tracking efficiency up to 99%
- Easy installation
- Equipped with comprehensive safety protection from software to hardware

Datasheet

Model	KE-5KD5L3EN	KE-6KD5L3EN	KE-7K5D5L3EN	KE-8KD5L3EN	KE-10KD5L3EN	KE-12KD5L3EN
PV Input Data						
Max.PV Input Power (W)	10000	12000	14000	16000	20000	24000
Max.PV Input Voltage (V)	800					
Start-up Voltage (V)	150					
MPPT Voltage Range (V)	180-650					
Rated PV Input Voltage (V)	550					
Max.Operating PV Input Current (A)	17+17		26+26			
Max.Input Short-Circuit Current (A)	28+28		40+40			
Number of MPPT Trackers	2					
Max.Number of Input Strings	1+1		2+2			
Battery Parameters						
Battery Type	Lead-acid or Lithium Iron Phosphate Battery					
Rated Battery Voltage (V)	40~60					
Max.Charge/Discharge Current (A)	125	150	180	200	220	250
Parallel Operation Mode						
Max.Number of Parallel Units (pcs)	10					
AC Input/Output						
Rated Input/Output Active Power (W)	5000	6000	7500	8000	10000	12000
Rated Input Apparent Power (VA)	5500	6600	8250	8800	11000	13200
Rated Input/Output Current (A)	7.6/7.3	9.1/8.7	11.4/10.9	12.2/11.6	15.2/14.5	18.2/17.4
Max. Input/Output Current (A)	8.4/8	10/9.6	12.5/12	13.4/12.8	16.7/16	20/19.2
Peak Power (Off-Grid)	2 Times Of Rated Power, 10s					
Power Factor Adjustment Range	0.8 leading ~ 0.8 lagging					
Rated Voltage (V)	220/380; 230/400					
Frequency (Hz)	50 (45-55) /60 (55-65)					
Connection Type	3L/N/PE					
Total Current Harmonic Distortion (THDi)	<3%(Rated power)					
DC Current Output	<0.5% x Rated current					
Transfer Time (Bypass to Inverter) (ms)	10					
Efficiency						
Max. Efficiency	97.8%					
Euro Efficiency	97%					
MPPT Tracking Efficiency	99%					
Device Protection						
Integrated Protection	DC/Battery Reverse Polarity Protection, DC/AC Lightning Protection, AC Overcurrent/Short-Circuit Protection Insulation Impedance Monitoring, Ground Fault Monitoring, Grid Monitoring, String Monitoring, Anti-Islanding Protection					
Surge Protection Level	DC Type II / AC Type III					
General						
Ingress Protection (IP) Rating	IP66					
Operating Temperature Range	-40~60 °C (>45°C Derating)					
Humidity Range	0~100% RH (Non-condensing)					
Noise Level @ 1m	<45dB @ 25°C (77°F)					
Type of Cooling	Natural cooling					
Communication Port	RS485/CAN; Option 1: WIFI + Bluetooth, Option 2: 4G + Bluetooth					
Dimensions(HxWxD) (mm)	638x363x230					
Weight (kg)	58					
Operating Altitude(m)	<2000					
Warranty	5 Years /10 Years					
Certification						
Grid-Tie Standards	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002,OVE-Richtlinie R25, G99, VDE-AR-N 4105					
Safety / EMC Standards	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2					



High-Voltage Three-Phase Hybrid Inverter

For European Grid

KE-N Series



Models:

KE-15KD5H3EN

KE-29K9D5H3EN

KE-20KD5H3EN

KE-30KD5H3EN

KE-25KD5H3EN



Features

- Enhanced insulation resistance testing technology
- Compatible with Virtual Power Plant (VPP) Technology
- Support higher charge-discharge current
- Support diesel generator connection
- MPPT tracking efficiency up to 99%
- Support 150V low voltage
- The AC-DC matching ratio can reach 2 times

Datasheet

Model	KE-15KD5H3EN	KE-20KD5H3EN	KE-25KD5H3EN	KE-29K9D5H3EN	KE-30KD5H3EN
PV Input Data					
Max.PV Input Power (W)	30000	40000	50000	59800	60000
Max.PV Input Voltage (V)	1000				
Start-up Voltage (V)	180				
MPPT Voltage Range (V)	150-850				
Rated PV Input Voltage (V)	600				
Max.Operating PV Input Current (A)	40				
Max.Input Short-Circuit Current (A)	65				
Number of MPPT Trackers	3				
Max.Number of Input Strings	2/2/2				
Battery Parameters					
Battery Type	Lithium Iron Phosphate Battery				
Rated Battery Voltage (V)	150~800				
Max.Charge/Discharge Current (A)	70*2				
Parallel Operation Mode					
Max.Number of Parallel Units (pcs)	10				
AC Input/Output					
Rated Input/Output Active Power (W)	15000	20000	25000	29900	30000
Rated Input Apparent Power (VA)	16500	22000	27500	32890	33000
Rated Input/Output Current (A)	22.7	30.3	37.88	45.3	45.5
Max. Input/Output Current (A)	25	33.3	41.7	49.8	50
Peak Power (Off-Grid)	1.6 Times Of Rated Power, 10s				
Power Factor Adjustment Range	0.8 leading ~ 0.8 lagging				
Rated Voltage (V)	220/380; 230/400				
Frequency (Hz)	50 (45-55) /60 (55-65)				
Connection Type	3L/N/PE				
Total Current Harmonic Distortion (THDi)	<3%(Rated power)				
DC Current Output	<0.5% x Rated current				
Transfer Time (Bypass to Inverter) (ms)	10				
Efficiency					
Max. Efficiency	97.8%				
Euro Efficiency	97%				
MPPT Tracking Efficiency	99%				
Device Protection					
Integrated Protection	DC/Battery Reverse Polarity Protection, DC/AC Lightning Protection, AC Overcurrent/Short-Circuit Protection Insulation Impedance Monitoring, Ground Fault Monitoring, Grid Monitoring, String Monitoring, Anti-Islanding Protection				
Surge Protection Level	DC Type II / AC Type III				
General					
Ingress Protection (IP) Rating	IP66				
Operating Temperature Range	-40~60℃ (>45℃ Derating)				
Humidity Range	0~100% RH (Non-condensing)				
Noise Level @ 1m	<45dB @ 25℃ (77°F)				
Type of Cooling	Natural cooling				
Communication Port	RS485/CAN; Option 1: WIFI + Bluetooth, Option 2: 4G + Bluetooth				
Dimensions(HxWxD) (mm)	770x690x320				
Weight (kg)	85				
Operating Altitude (m)	<2000				
Warranty	5 Years/10 Years				
Certification					
Grid-Tie Standards	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002,OVE-Richtlinie R25, G99, VDE-AR-N 4105				
Safety / EMC Standards	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				



High-Voltage Three-Phase Hybrid Inverter

For European Grid

KE-N Series



Models:

- KE-30KD6H3EN
- KE-50KD6H3EN
- KE-35KD6H3EN
- KE-60KD6H3EN
- KE-40KD6H3EN



Features

- The AC-DC matching ratio can reach 2 times
- Supports 150–800V high-voltage batteries
- Supports up to 10 units in parallel
- Ingress Protection(IP)Rating:IP66
- Supports VPP technology
- Supports higher charge and discharge current
- Supports diesel generator connection

Datasheet

Model	KE-30KD6H3EN	KE-35KD6H3EN	KE-40KD6H3EN	KE-50KD6H3EN	KE-60KD6H3EN
PV Input Data					
Max.PV Input Power (W)	60000	70000	80000	100000	120000
Max.PV Input Voltage (V)	1000				
Start-up Voltage (V)	180				
MPPT Voltage Range (V)	150-850				
Rated PV Input Voltage (V)	600				
Max.Operating PV Input Current (A)	40				
Max. Input Short-Circuit Current (A)	65				
Number of MPPT Trackers	4				
Max.Number of Input Strings	2/2/2/2				
Battery Parameters					
Battery Type	Lithium Iron Phosphate Battery				
Rated Battery Voltage (V)	150~800				
Max.Charge/Discharge Current (A)	70*2				
Parallel Operation Mode					
Max.Number of Parallel Units (pcs)	10				
AC Input/Output					
Rated Input/Output Active Power (W)	30000	35000	40000	50000	60000
Rated Input Apparent Power (VA)	33000	38500	44000	55000	66000
Rated Input/Output Current (A)	45.5	53	60.6	75.8	90.9
Max. Input/Output Current (A)	50	58.3	66.7	83.3	100
Peak Power (Off-Grid)	1.5 Times Of Rated Power, 10s				
Power Factor Adjustment Range	0.8 leading ~ 0.8 lagging				
Rated Voltage (V)	220/380; 230/400				
Frequency (Hz)	50 (45-55) /60 (55-65)				
Connection Type	3L/N/PE				
Total Current Harmonic Distortion (THDi)	<3%(Rated power)				
DC Current Output	<0.5% x Rated current				
Transfer Time (Bypass to Inverter) (ms)	10				
Efficiency					
Max.Efficiency	97.8%				
Euro Efficiency	97%				
MPPT Tracking Efficiency	99%				
Device Protection					
Integrated Protection	DC/Battery Reverse Polarity Protection, DC/AC Lightning Protection, AC Overcurrent/Short-Circuit Protection Insulation Impedance Monitoring, Ground Fault Monitoring, Grid Monitoring, String Monitoring, Anti-Islanding Protection				
Surge Protection Level	DC Type II / AC Type III				
General					
Ingress Protection (IP) Rating	IP66				
Operating Temperature Range	-40~60 °C (>45°C Derating)				
Humidity Range	0~100% RH (Non-condensing)				
Noise Level @ 1m	<45dB @ 25°C (77°F)				
Type of Cooling	Natural cooling				
Communication Port	RS485/CAN; Option 1: WIFI + Bluetooth, Option 2: 4G + Bluetooth				
Dimensions(HxWxD) (mm)	780x530x281.5				
Weight (kg)	95				
Operating Altitude (m)	<2000				
Warranty	5 Years /10 Years				
Certification					
Grid-Tie Standards	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002,OVE-Richtlinie R25, G99, VDE-AR-N 4105				
Safety / EMC Standards	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				



Grid-Tied Inverter

For The American Grid

KE-A Series



Models:

KE-125KE53UA



Features

- Max efficiency up to 98.8%
- High conversion efficiency, reduces energy consumption and cuts operational costs
- Built-in integrated AFCI reduces fire hazards
- Ingress Protection(IP)Rating:IP66 ; suitable for various climatic environments
- Supports string monitoring and night power supply function

Datasheet

Model	KE-125KE53UA
DC Input	
Max.Input Power (kW)	187.5
Max.Input Voltage (V)	1500
Start-up Voltage	250
MPPT Voltage Range	200-850
Rated Input Voltage (V)	600
Max. Input Short-Circuit Current (A)	60+60+60+60+60
Max. Input Current (A)	40+40+40+40+40
Number of MPPT Trackers / Max. Number of Input Strings	6/4+4+4+4+4
AC Output	
Rated Output Power (kW)	125
Max.AC Output Current(A)	151
Rated Output Voltage/Range(V)	277/480
Grid Connection Type	3L+N+PE
Rated Grid-Tie Frequency/Range (Hz)	60
Power Factor	0.8 leading ~ 0.8 lagging
Total Current Harmonic Distortion (THDi)	< 3%
DC Injection Current	<0.5In
Efficiency	
Max. Efficiency	98.8%
Euro Efficiency	98.2%
MPPT Tracking Efficiency	99%
Device Protection	
Integrated Protection	DC Reverse Polarity Protection, DC Component Monitoring, DC Input Switch, DC Terminal Impedance Monitoring , AC Output Overload Protection, AC Output Overvoltage Protection, AC Output Short-Circuit Protection , Thermal Protection, Over/Under Voltage/Dip Protection, Ground Current Monitoring, Ground Fault Monitoring, Residual Current Monitoring (RCD), Surge Protection, Grid Monitoring,AFCI ,RSD Compatibility
Surge Protection Level	DC Type II / AC Type III
General	
Ingress Protection (IP) Rating	IP66/Type 4X
Operating Temperature Range	-25 ~60°C (>45°C Derating)
Noise Level@1m	<69 @ 25°C (77°F)
Type of Cooling	Natural cooling
Dimensions(HxWxD) (mm)	560x900x346.5
Weight (kg)	81
Operating Altitude (m)	< 4000
Warranty	5 Years
Topology	Non-isolated
Communication	
Communication Port	RS485/CAN/Wi-Fi
Certification	
Overview	UL 62109, UL 1998, CAN/CSA-C22.2 No.62109, FCC Part 15 Class A IEEE 1547:2018, UL 1741-SA - CA Rule 21, HECO Rule 14H, UL1741SB

Grid-Tied Inverter

For European Grid

KE-A Series



Models:

- KE-90KE53EA
- KE-100KE53EA



Features

- Max efficiency up to 98.8%
- High conversion efficiency, reduces energy consumption and lowers operating costs
- Equipped with DC arc fault circuit interrupter (optional) to reduce fire risks
- Optional communication interfaces are available for user-friendly operation
- Ingress Protection(IP)Rating:IP66
- Supports string monitoring and night power supply function

Datasheet

Model	KE-90KE53EA	KE-100KE53EA
DC Input		
Max.Input Power(kW)	135	150
Max.Input Voltage(V)	1000	
Start-up Voltage	250	
MPPT Voltage Range	200-850	
Rated Input Voltage(V)	600	
Max.Input Short-Circuit Current(A)	60+60+60+60+60	
Max.Input Current(A)	40+40+40+40+40	
Number of MPPT Trackers/ Max.Number of Input Strings	4/4+4+4+4+4	
AC Output		
Rated Output Power (kW)	90	100
Max. Output Apparent Power (kVA)	99	110
Rated AC Output Current (A)	136.4/130.4	151.5/144.9
Max. AC Output Current (A)	150/143.5	166.7/159.4
Rated Output Voltage / Range (V)	220/380V, 230/400V 0.85Un-1.1Un	
Grid Connection Type	3L+N+PE	
Rated Grid-Tie Frequency / Range (Hz)	50/45-55,60/55-65	
Power Factor	0.8 leading ~ 0.8 lagging	
Total Current Harmonic Distortion (THDi)	< 3%	
DC Injection Current	<0.5%In	
Efficiency		
Max. Efficiency	98.8%	
Euro Efficiency	98.2%	
MPPT Tracking Efficiency	99%	
Device Protection		
Integrated Protection	DC Reverse Polarity Protection, DC Component Monitoring, DC Input Switch, DC Terminal Impedance Monitoring, AC Output Overload Protection, AC Output Overvoltage Protection, AC Output Short-Circuit Protection, Thermal Protection, Over/Under Voltage/Dip Protection, Ground Current Monitoring, Ground Fault Monitoring, Residual Current Monitoring (RCD), Surge Protection, Grid Monitoring,AFCI ,RSD Compatibility	
Surge Protection Level	DC Type II / AC Type III	
General		
Ingress Protection (IP) Rating	IP66	
Operating Temperature Range	-25 ~ 60°C (>45°C Derating)	
Noise Level @ 1m	≤50 @ 25°C (77°F)	
Type of Cooling	Natural cooling	
Dimensions(HxWxD) (mm)	560×900×346.5	
Weight (kg)	81	
Operating Altitude(m)	< 4000	
Warranty	5 Years	
Topology	Non-isolated	
Communication		
Communication Interfaces	RS485/CAN/Wi-Fi	
Certification		
Overview	IEC/EN 62109-1/-2, EN 61000-6-1/-3, IEC 63027:2023, EN 50549-1/-10, AS 4777.2, AS 60747.3, SIRIM+ST COA, Rohs	



IP66 Off - Grid Inverter

Kayis Series



Models:

- [KE-6KD5L1EF \(For European Grid \)](#)
- [KE-12KD5LSUF \(For American Grid \)](#)



Features

- Fully optimized insulation resistance detection technology
- MPPT tracking efficiency up to 99%
- Optional integration with Ktech iHEMS system
- Optional connectivity to Ktech RSD Cloud platform
- Optional mixed-loading capability
- Optional AFCI (Arc Fault Circuit Interrupter) protection
- Optional 10-year warranty coverage

Datasheet

Model	KE-6KD5L1EF (European)	KE-12KD5LSUF (American)
AC Input/Output		
Rated Input/Output Active Power(W)	6000	12000
Rated Input/Output Current(A)	27.3	50
Max.Bypass Current (Grid to Load)(A)	45	63
Peak Power(Off-Grid)	2 Times Of Rated Power, 10s	
Rated Voltage (V)	220/230	110/220
Frequency (Hz)	50/45-55, 60/55-65	
Connection Type	L+N+PE	2L+N+PE
Total Voltage Total Harmonic Distortion (THDv)	<3% (Rated power)	
DC Current Output	<0.5% x Rated current	
Transfer Time (Bypass and Inverter)(ms)	10	
Battery Parameters		
Battery Type	Lead-acid or Lithium Iron Phosphate Battery	
Max. Charge Current (Configurable) (A)	125	200
Max. Discharge Current (A)	125	200
Charging Voltage Range (V)	40-60	
Lithium-ion Battery Charging Strategy	BMS Adaptive	
Battery Input Ports	1	
PV Parameters		
Number of MPPT Trackers	2/1+1	2/2+2
Max.PV Open-Circuit Voltage(V)	550	
Start-up Voltage (V)	100	
Rated PV Voltage (V)	375	
MPPT Voltage Range (V)	125-425	
Max.PV Input Power (W)	9600	18000
Max.PV Input Current (A)	18+18	26+26
Max.PV Input Short-Circuit Current(A)	27+27	40+40
Efficiency		
Max. Efficiency	97.6%	
Euro Efficiency	96.5%	
MPPT Tracking Efficiency	99%	
Device Protection		
Integrated Protection	Over-temperature protection, overload protection, short-circuit protection, PV over-voltage protection, PV over-current protection, battery over-voltage protection, leakage protection, anti-islanding protection, ground fault detection, surge protection, GFCI	
Surge Protection Level	DC Type II / AC Type III	
General		
Ingress Protection (IP) Rating	IP66	
Operating Temperature Range	-40~60°C (>45°C Derating)	
Humidity Range	0~100% RH (Non-condensing)	
Noise Level @ 1m	<30dB @ 25°C (77°F)	
Type of Cooling	Natural cooling	
Communication Port	Built-in: RS485/CAN; Option 1: WIFI+ Bluetooth, Option 2: 4G + Bluetooth	
Dimensions(HxWxD)(mm)	493x400x150	800x445x256
Weight(kg)	20	58
Operating Altitude(m)	<2000	
Warranty	5 Years/10 Years	
Certification		
Overview	CE-LVD EN IEC 62109-1/-2,RoHS	UL 1741 3rd Edition (September 28, 2021), CSA-C22.2 No.107.1-16 FCC SDOC Part 15B



Single-Phase/Split-Phase Off-Grid Inverter

For The American Grid

KE-F Series



Models:

Single-Phase

KE-5KC5L1UF

KE-6KC5L1UF

Split-Phase

KE-5KC6LSUF

KE-7KC6LSUF

KE-6KC6LSUF

KE-7K5C6LSUF



Features

- Ingress Protection(IP)Rating: IP20
- Supports up to 6 parallel units
- MPPT tracking efficiency up to 99%
- Supports in-depth customization
- BMS communication protocol is openable
- Split-phase inverter supports single-phase full power output

Datasheet

Model	KE-5KC5L1UF	KE-6KC5L1UF	KE-5KC6LSUF	KE-6KC6LSUF	KE-7KC6LSUF	KE-7K5C6LSUF
Inverter Output						
Rated Output Power(W)	5000	6000	5000	6000	7000	7500
Max.Peak Power(W)	10000	12000	10000	12000	14000	15000
Rated Output Voltage(V)	110/120		120/240			
Rated Frequency(Hz)	50/60					
Overload Capability	110% 5min; 200% 5s					
Output Waveform	Pure Sine Wave					
Transfer Time	10ms (Typical value); Max 15ms for single unit, max 30ms for parallel operation					
Max.Number of Parallel Units	6					
Total Voltage Total Harmonic Distortion (THDv)	<3% (Rated power)					
DC Current Output	<0.5% x Rated current					
Eco Mode / Energy Saving Mode	Support					
Battery						
Battery Type	Lead-acid or Lithium Iron Phosphate Battery					
Rated Battery Voltage(V)	48					
Voltage Range(V)	40~60					
Lithium-ion Battery Charging Strategy	BMS Adaptive					
Max.Charge Current(A)	120					
Max.Discharge Current(A)	120					
PV Input						
Number of MPPT Trackers	1					
Max.Input Power(W)	7500	9000	7500	9000	10500	
Max.Input Current(A)	27					
Max.Input Short-Circuit Current(A)	40					
Max.Open-Circuit Voltage (Voc)(V)	500					
Rated MPPT Voltage(V)	375					
MPPT Start-up Voltage(V)	100					
MPPT Operating Voltage Range(V)	125~425					
Utility / Generator Input						
Input Voltage Range(V)	90~140		90~280			
Input Frequency Range(Hz)	50/45-55, 60/55-65					
Bypass Overload Current(A)	63		45			
Efficiency						
Max. Efficiency	97.6%					
Euro Efficiency	96.5%					
MPPT Tracking Efficiency	99%					
Protection						
Integrated Protection	Over-temperature protection, overload protection, short-circuit protection, PV overvoltage protection, PV overcurrent protection, battery overvoltage protection, surge protection					
Surge Protection Level	DC Type II / AC Type III					
General						
Dimensions (H×W×D)(mm)	472x355x130		472x412x130			
Weight(kg)	14.5		16			
Ingress Protection (IP) Rating	IP20					
Operating Temperature Range	-10~55℃ (>45℃ Derating)					
Noise Level @ 1m	≤45 @ 25℃ (77°F)					
Type of Cooling	Intelligent Air Cooling					
Warranty	1 Year					
Communication						
Communication Port	Built-in: RS485/CAN/WIFI/Bluetooth; Option:4G					
Certification						
Overview	UL 1741 3nd Edition (September 28, 2021),CSA-C22.2 No.107.1-16, FCC SDOC Part 15B					



Split-Phase Off-Grid Inverter

For The American Grid

KE-F Series



Models:

- KE-8KC5LSUF
- KE-10KC5LSUF
- KE-12KC5LSUF



Features

- Ingress protection(ip)rating: IP20
- Supports up to 6 units parallel operation
- Mppt tracking efficiency up to 99%
- Supports in-depth customization
- Open bms communication protocol available
- Supports single-phase full power output

Datasheet

Model	KE-8KC5LSUF	KE-10KC5LSUF	KE-12KC5LSUF
Inverter Output			
Rated Output Power(W)	8,000	10,000	12,000
Rated Output Voltage(V)	120/240		
Rated Frequency(Hz)	50/60		
Overload Capacity	110% 5min; 150% 5s		
Output Waveform	Pure Sine Wave		
Transfer Time	10ms (Typical value); Max 15ms for single unit, max 30ms for parallel operation		
Max Parallel Units	6		
Total Voltage Total Harmonic Distortion (THDv)	<3% (Rated power)		
DC Current Output	<0.5% x Rated current		
Energy Saving Mode	Support		
Battery			
Battery Type	Lead-acid or Lithium Iron Phosphate Battery		
Rated Battery Voltage(V)	48		
Voltage Range(V)	40~60		
Li-ion Battery Charging Strategy	BMS Adaptive		
Max.Charging Current(A)	180	200	
Max.Discharging Current(A)	180	200	
PV Input			
Number of MPPT Trackers	2/1+1		
Max Input Power(W)	12,000	15,000	18,000
Max Input Current(A)	22+22		
Max Input Short-Circuit Current(A)	33+33		
Max Open-Circuit Voltage(V)	500		
MPPT Rated Voltage(V)	375		
MPPT Start-Up Voltage(V)	100		
MPPT Operating Voltage Range (V)	125~425		
Utility/Generator Input			
Input Voltage Range(V)	90~280		
Input Frequency Range (Hz)	50/45-55, 60/55-65		
Bypass Overload Current (A)	63		
Efficiency			
Max. Efficiency	97.6%		
Euro Efficiency	96.5%		
MPPT Tracking Efficiency	99%		
Protection			
Integrated Protection	Over-temperature protection, overload protection, short-circuit protection, PV overvoltage protection, PV overcurrent protection, battery overvoltage protection, leakage current protection, surge protection		
Surge Protection Level	DC Type II / AC Type III		
General			
Dimensions (H×W×D) (mm)	620 x 470 x 147		
Weight (kg)	25.5		
Ingress Protection (IP) Rating	IP20		
Operating Temperature Range	-10~55℃ (>45℃ Derating)		
Noise Level @ 1m	≤45 @ 25℃ (77°F)		
Type of Cooling	Intelligent Air Cooling		
Warranty	1 Year		
Communication			
Communication Port	Built-in: RS485/CAN/WIFI/Bluetooth; Option: 4G		
Certification			
Overview	UL 1741 3nd Edition (September 28, 2021),CSA-C22.2 No.107.1-16, FCC SDOC Part 15B		



Split-phase Off-grid Inverter

For The North American Grid

Kayis Series



Models:

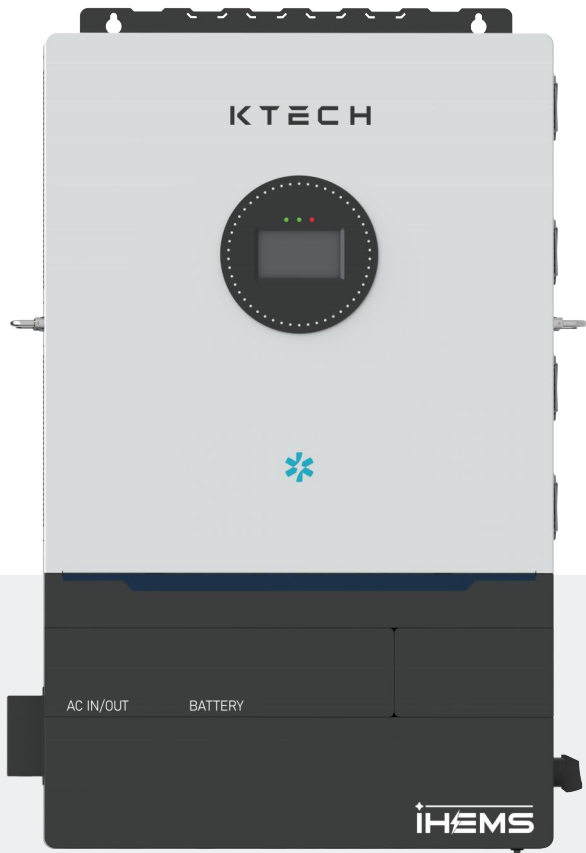
KE-6KF5LSUF

KE-12KF5LSUF

KE-7KF5LSUF

KE-15KF5LSUF

KE-16KF5LSUF



Features

- Integrated circuit breakers (Grid, load, generator, battery) and pv switch
- Single-phase full power output
- Integrated afci (arc fault circuit interrupter)
- Rsd compatible (rapid shutdown device)
- Ac coupling
- Independent smart load interface
- Mixed load operation
- Seamlessly connect to iHEMS® load management system

Datasheet

Model	KE-6KF5LSUF	KE-7KF5LSUF	KE-12KF5LSUF	KE-15KF5LSUF	KE-16KF5LSUF
Inverter Output					
Rated Output Power (W)	6000	7000	12000	15000	16000
Rated Output Voltage (V)	120/240				
Rated Frequency (Hz)	50/60				
Overload Capacity	110% 5min; 200% 5s		110% 5min; 150% 5s		
Transfer Time	10ms (Typical value); Max 15ms for single unit, max 30ms for parallel operation				
Max Parallel Units	6				
Total Voltage Total Harmonic Distortion (THDv)	<3% (Rated power)				
DC Current Output	<0.5% x Rated current				
Output Port Configuration	Load Output Ports		Primary Load Output Ports + Smart Load / AC Coupling Ports		
Battery Parameters					
Battery Type	Lead-acid or Lithium Iron Phosphate Battery				
Rated Battery Voltage (V)	48				
Voltage Range (V)	40~60				
Li-ion Battery Charging Strategy	BMS Adaptive				
Max Charging Current (A)	120		250	290	
Max Discharging Current (A)	120		250	290	
PV Input					
Number of MPPT Trackers	2/1+1		2/2+1	3/2+1+1	
Max Input Power (W)	9000	10500	18000	22500	24000
Max Input Current (A)	27+13.5		28+20	28+20+20	
Max Input Short-Circuit Current (A)	40+20		42+30	42+30+30	
Max Open-Circuit Voltage (V)	500			550	
MPPT Rated Voltage (V)	375			375	
MPPT Start-Up Voltage (V)	100			100	
MPPT Operating Voltage Range (V)	125~425			125 ~ 475	
Utility / Generator Input					
Input Interface	1		2		
Input Voltage Range (V)	90~280				
Input Frequency Range (Hz)	50/45-55, 60/55-65				
Bypass Overload Current (A)	45		100	160	
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	96.5%				
MPPT Tracking Efficiency	99%				
Device Protection					
Integrated Protection	Over-temperature protection, overload protection, short-circuit protection, PV overvoltage protection, PV overcurrent protection, battery overvoltage protection,leakage protection, ground fault detection protection, surge protection, GFCI, AFCI, RSD compatible				
Surge Protection Level	DC Type II / AC Type III				
General					
Ingress Protection (IP) Rating	IP20				
Operating Temperature Range	-10~55℃ (>45℃ Derating)				
Noise Level @ 1m	≤45 @ 25℃ (77°F)				
Type of Cooling	Intelligent Air Cooling				
Dimensions(HxWxD) (mm)	670x412x136		957x597x152		
Weight (kg)	16		51		
Operating Altitude(m)	< 2000				
Warranty	1 Year				
Communication					
Communication Port	Built-in: RS485 / CAN/Wi-Fi/Bluetooth; Option: 4G		Built-in: RS485/CAN ; Option 1: Wi-Fi + Bluetooth;Option 2: 4G + Bluetooth		
Certification					
Overview	UL STD.1741 , CSA-C22.2 No.107.1-16 , FCC SDOC Part 15B				



AC-Coupled Inverter

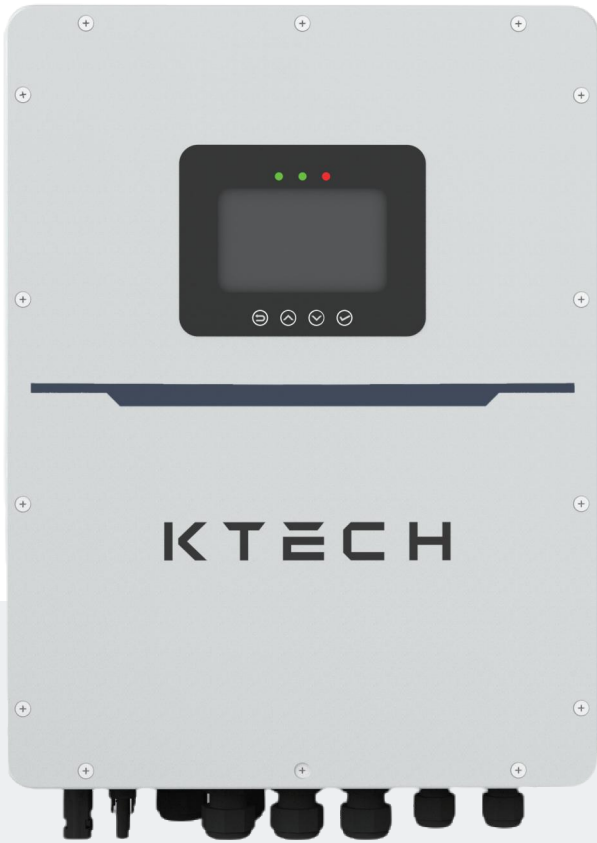
Kayis Series



Models:

- CAN-3KD5LETN
- CAN-3KD5L1EN
- CAN-3K6D5L1EN

- CAN-5KD5L1EN
- CAN-6KD5L1EN



Features

- Easy energy storage upgrade for existing PV systems
- Retain original on-grid inverter to reduce renovation costs
- Compatible with multi-brand inverters, suitable for more application scenarios
- Intelligently dispatch PV, batteries and loads to improve self-consumption rate
- Support backup power operation and enhance household power supply reliability
- Ideal energy storage upgrade solution for users with existing photovoltaic installations

Datasheet

Model	CAN-3KD5LETN	CAN-3KD5L1EN	CAN-3K6D5L1EN	CAN-5KD5L1EN	CAN-6KD5L1EN
Uninterruptible Power Supply (UPS)					
Rated Output Power (W)	3000	3000	3600	5000	6000
Rated Output Current (A)	13.7	13.7	16.4	22.8	27.3
Max.Output Current (A)	15	15	18	25	30
Peak Power (W)	2 Times Of Rated Power, 10s				
Rated Voltage (V)	220/230, 0.88Un < U < 1.1Un				
Frequency (Hz)	50/45-55, 60/55-65				
Total Voltage Harmonic Distortion (THDv)	<3% (Rated power)				
DC Current Output	<0.5% X Rated current				
Transfer Time (Bypass to Inverter) (ms)	10				
Max.Number of Parallel Units	10				
Battery Parameters					
Battery Type	Lead-acid or Lithium Iron Phosphate Battery				
Max. Charge Current (Adjustable) (A)	125	62.5	75	105	125
Max. Discharge Current (A)	125	62.5	75	105	125
Rated Battery Voltage (V)	24	48			
Charging Voltage Range (V)	20-30	40-60			
Support Forced Battery Wake-up from Grid (Yes/No)	Yes				
Grid					
Rated AC Voltage (V)	220 / 230				
Rated AC Frequency (Hz)	50 / 60				
Rated AC Output Current (A)	13.7	13.7	16.4	22.8	27.3
Rated AC Output Power (W)	3000	3000	3600	5000	6000
Power Factor (PF)	0.8 leading ~ 0.8 lagging				
Total Current Harmonic Distortion (THDi)	<3%				
Bypass Overload Current (A)	45				
Efficiency					
Max.Efficiency	97.6%				
Max.Charge/Discharge Efficiency	94.5%				
Device Protection					
Integrated Protection	Over-temperature protection, overload protection, short-circuit protection, battery over-voltage protection, Leakage protection, anti-islanding protection, ground fault detection, surge protection, GFCI				
Surge Protection Level	AC Type III				
General					
Ingress Protection (IP) Rating	IP66				
Operating Temperature Range	-40~60°C (>45°C Derating)				
Humidity Range	0~100% RH (Non-condensing)				
Noise Level @ 1m	<45dB @ 25°C (77°F)				
Type of Cooling	Intelligent Air Cooling				
Communication Port	RS485/CAN; Option 1: WIFI + Bluetooth, Option 2: 4G + Bluetooth				
Dimensions(HxWxD) (mm)	493×400×150 (Excluding Connectors and Brackets)				
Weight (kg)	20				
Operating Altitude (m)	< 2000				
Warranty	5 Years /10 Years				
AC Connector	Yes				
Certification					
Overview	EN 62109-1:2010; EN 62109-2:2011; EN IEC 61326-1:2021;RoHS				



Solar Charge Controller

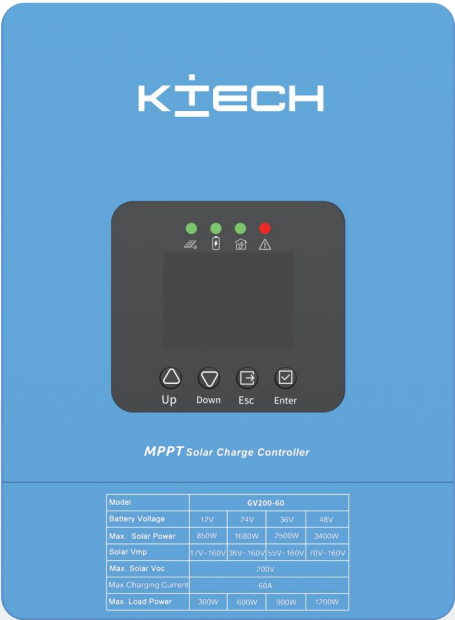
GV Series



Models:

GV 150-60

GV 200-60



Features

- User-friendly interface for easy operation
- Whisper-quiet intelligent cooling
- MPPT tracking efficiency up to 99%
- Ultra-low power costs

Datasheet

Model	GV 150-60	GV 200-60
System Voltage	12V/24V/36V/48V Auto	
Load Loss	12V/≤50mA;24V/≤25mA;36V/≤17mA;48V/≤13mA	
Battery Voltage	9V ~ 65V	
Maximum Solar Input Voltage	150V	200V
Maximum Power Point Voltage Range	(Battery voltage +2V) ~ 130V	
Rated Charging Current	60A	
Rated Load Current	20A	25A
Maximum Capacitive Load Capacity	10000μF	
Maximum Input Power Of PV System	800W/12V ; 1600W/24V; 2400W/36V ; 3200W/48V	850W/12V ; 1680W/24V; 2500W/36V ; 3400W/48V
Conversion Efficiency	≤98%	
MPPT (Maximum Power Point Tracking) Efficiency	99%	
Temperature Compensation Coefficient	-3mv/°C/2V (Default)	
Operating Temperature	-35°C~45°C	
Ingress Protection (IP) Rating	IP20	
Weight	5.6kg	
Communication Port	RS232 / RS485 / Bluetooth / WIFI	
Altitude	≤ 3000 m	
Dimensions (HxWxD)	285x205x93 mm	
Warranty	1Year	



Solar Charge Controller

GV Series



Models:

- GV 75-15
- GV 100-20
- GV 100-30
- GV 100-40
- GV 100-50



- Ultra-low power costs
- Compact and portable design
- High safety and reliability
- Distributed energy system



Datasheet

Model	GV 75-15
Battery Voltage	12/24V Automatic
Rated PV Input Power (12V)	220 W
Rated PV Input Power (24V)	440 W
Maximum PV Short-circuit Current	15 A
Maximum PV Open-circuit Voltage	75 V
Peak Efficiency	98%
Self-consumption With Load	12V:19mA 12V:10mA
Self-consumption Without Load	24V:16mA 24V:8mA
Absorption Charging Voltage	14.4V/28.8V (adjustable)
Float Charging Voltage	13.8V/27.6V (adjustable)

Datasheet

Model	GV 100-20	GV 100-30	GV 100-40	GV 100-50
Battery Voltage	12/24V Automatic	12/24V Automatic	12/24V Automatic	12/24V Automatic
Rated PV Input Power (12V)	290 W	440 W	570 W	700 W
Rated PV Input Power (24V)	580 W	880 W	1140 W	1400 W
Maximum PV Short-Circuit Current	20 A	35 A	40 A	60 A
Automatic load opening	Yes	Yes	Yes	Yes
Maximum PV Open-Circuit Voltage	100 V	100 V	100 V	100 V
Peak Efficiency	98%	98%	98%	98%
Self-Consumption without Load	12 V: 8 mA 48 V:7 mA	24V: 30mA 12V: 20mA	12V: 30mA 24V: 20mA	12V: 30mA 24V: 20mA
Absorption Charging Voltage	14.4V/28.8 V/ 57.6 V(adjustable)	14.4V/28.8V(adjustable)	14.4V/28.8V(adjustable)	14.4V/28.8V(adjustable)
Float Charging Voltage	13.8 V/27.6 V/ 55.2 V(adjustable)	13.8 V/27.6 V(adjustable)	13.8V/ 27.6V (adjustable)	13.8V/ 27.6V(adjustable)



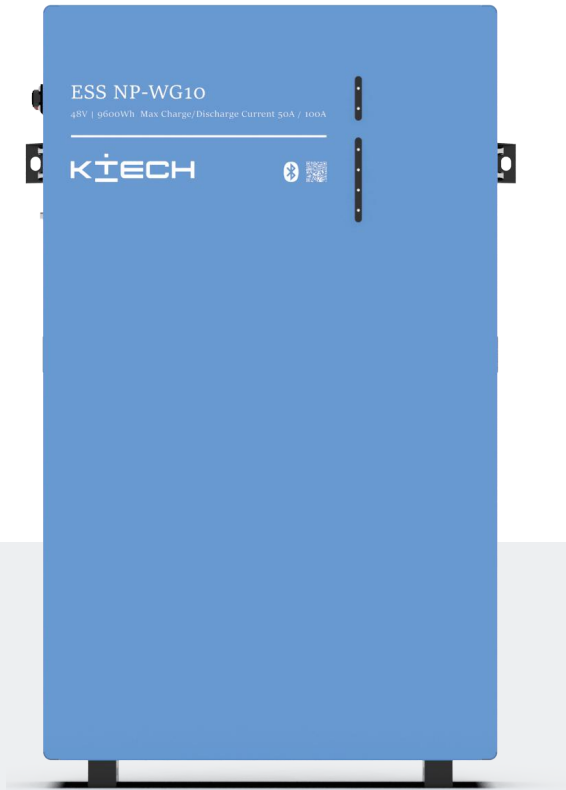
Wall-Mounted Low-Voltage Lithium Battery

NP Series



Model:

- NP-W525
- NP-WG10



Features

- IP21 protection level, meeting different scenarios usage requirements
- Round-trip efficiency ≥97.5%
- High energy density
- Support parallel connection of 30+ units
- Advanced Battery Management System (BMS)

Datasheet

Model	NP-W525	NP-WG10
Type	LiFePO4	
Capacity	48V 100 AH	48V 200 AH
Rated Energy (Kwh)	4.8	9.6
Usable Energy (Kwh)	4.4	8.8
Peak Output Power (Kw, 3s)	7.68	9.6
Round-trip Efficiency	≥97.5%	
Rated Voltage (V)	48	48/51.2
Operating Voltage (V)	42-55	42-55
Maximum Charge/discharge Current (A)	100/100	200/200
Communication	CAN, RS485	
Ingress Protection (IP) Rating	IP21	
Operating Temperature (°c)	-15-60°C	
Type of Cooling	Natural cooling	
Installation	Wall-mounted and floor-standing	
Cycle Life	> 6,000 times	
Design Life	10+years (25°C@77°F)	
Recommended Depth Of Discharge (Dod)	90%	
Dimensions (H×W×D mm)	535x395x165	900x395x165
Weight (Kg)	47	90
Humidity	5% - 95%	
Altitude (M)	< 2,000	
Warranty	5 Years	
Safety Standards	CE UN38.3;IEC62619	
Scalability	Support parallel connection of 30+ units	
Ktech Cloud Platform	Yes	



KTECH PowerBlock

NP Series



Model:

NP-WG16



Features

- Remote monitoring of battery pack data via built-in wifi/bluetooth.
- Lifepo4: higher safe performance and longer cycle life.
- High-rate charging/discharging delivers fast energy flowand sustained power.
- Ccs welding lowers battery internal resistance forenhanced performance.
- Equipped with an aerosol fire extinguishing system.
- Scalable expansion up to 32 pcs in parallel.
- Multiple protection with built-in smart bms,breaker and fuse.
- Compatible with leading inverter brands.
- Resist harsh environment with IP65-rate protection.
- Easily replace the battery fuse when it blows.

Datasheet

Model	NP-WG16
Battery Type	LiFePO4
Nominal Energy	16kWh
Nominal Capacity	314Ah
Nominal Voltage	51.2V
Operating Voltage	44.8~57.6V
Recommend Charge/Discharge Current	80A
Max. Continuous Charge/Discharge Current	160A
Peak Charge/Discharge Current(15s)	200A
Scalability	Max. 32 pcs in Parallel (512kwh)
Depth of Discharge(DOD)	≥95%
Display Type	LED
Ingress Protection (IP) Rating	IP66
Working Temperature Range	Charge: 0°C~+55°C
	Discharge: -20°C~+55°C
Storge Temperature Range	0°C~+35°C
Humidity	5%~95%
Altitude	≤2000m
Communication	RS485/CAN
Cycle Life	≥8,000 Cycles
Installation	Floor-Mounted
Protection	Built-in smart BMS, Breaker, Fuse
Warranty Period	10 Years
Certification	UN38.3
Product Weight	121 kg
Package Weight	143 kg
Product Dimension	895X450X235 mm
Package Dimoneian	958X548X424 mm



PowerX Core M

ALL-IN-ONE Machine

PowerX Series



Features

- Support in-depth customization
- Flexible selection of batteries and inverters
- Active balancing equipped as standard
- Built-in safety protection devices
- High energy density design for efficient and compact energy storage

Inverter Model

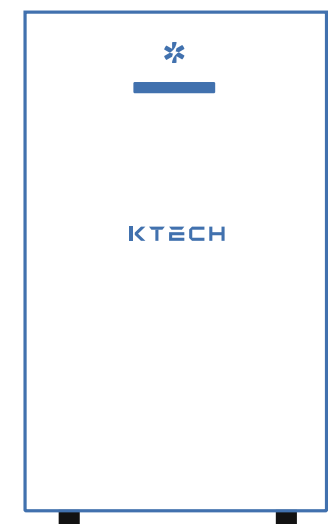
American Standard

- KE-5KC6LSUF/6KC6LSUF/7KC6LSUF/7K5C6LSUF
(The parameters are shown on PageP44)
- KE-8KC5LSUF/10KC5LSUF/12KC5LSUF
(The parameters are shown on PageP46)
- KE-6KF5LSUF/7KF5LSUF/12KF5LSUF
15KF5LSUF/16KF5LSUF
(The parameters are shown on PageP48)
- KE-5KC5L1UF/6KC5L1UF
(The parameters are shown on PageP44)



Compatible With Wall-mounted 5-16 kWh Lithium Batteries

- NP-W525 (Dimensions: 535x395x165mm)
- NP-WG10 (Dimensions: 900x395x165mm)
- NP-WG16 (Dimensions: 895X450X235mm)





PowerX Stack

ALL-IN-ONE Machine

PowerX Series



Features

- Batteries can be freely stacked in parallel with 1-3 units
- Supports vpp (virtual power plant) technology
- Supports deep customization
- IP20 ingress protection rating
- Active balancing is included as standard
- Built-in safety protection devices
- High energy density design , more compact for efficient energy storage

Datasheet

Model	PowerX Stack (American)	PowerX Stack (European)
Inverter Specifications		
PV Input		
Number of MPPT Trackers	1	1
Max.Input Power (W)	9000	9000
Max.Input Current (A)	27	27
Max.Input Short-Circuit Current (A)	40	40
Max.Open-Circuit Voltage (V)	500	500
MPPT Rated Voltage (V)	375	375
MPPT Start-Up Voltage (V)	100	100
MPPT Operating Voltage Range (V)	125 ~ 425	125 ~ 425
Inverter Output		
Rated Output Power (W)	6000	6000
Max.Peak Power (W)	12000	12000
Rated Output Voltage (V)	120/240, 0.88Un<U<1.1Un	230, 0.88Un<U<1.1Un
Rated Frequency (Hz)	50/60	50/60
Overload Capacity	110% 5min; 200% 5s	110% 5min; 200% 5s
Switchover Time (ms)	10ms (typical value), max.20ms per unit	10ms (typical value), max.20ms per unit
Grid/Generator Input		
Input Voltage Range (V)	90~280	90~280
Input Frequency Range (Hz)	50(45~55)/60(55~65)	50(45~55)/60(55~65)
Bypass Overload Current (A)	45	63
Battery Connection		
Battery Voltage Range (V)	40-60	40-60
Number of Batteries Per Inverter	1 ~ 3	1 ~ 3
Efficiency		
Max. Efficiency	97.6%	97.6%
Euro Efficiency	96.5%	96.5%
MPPT Tracking Efficiency	99%	99%
Device Protection		
Integrated Protection	Over-temperature protection, Overload protection, Short-circuit protection, PV overvoltage protection, PV overcurrent protection, Battery overvoltage protection, Leakage current protection, Surge protection	Over-temperature protection, Overload protection, Short-circuit protection, PV overvoltage protection, PV overcurrent protection, Battery overvoltage protection, Leakage current protection, Surge protection
Surge Protection Level	DC Type II / AC Type III	DC Type II / AC Type III
Certifications		
Overview	UL1741, CSA, FCC	EN/IEC62109-1/-2,RoHS
Battery Specifications		
Battery Capacity (kWh)	5.12	5.12
Rated Voltage (V)	51.2	51.2
Rated Capacity (Ah)	100	100
Battery Type	Lithium Iron Phosphate Battery	Lithium Iron Phosphate Battery
Max.Discharge Current (A)	100	100
Max.Charge Current (A)	100	100
Dimensions (W x H x D) (mm)	618 x 445 x 165	618 x 445 x 165
Net Weight (Kg)	57	57
General Parameters		
Weight (Kg)	16	16
Dimensions (WxHxD) (mm)	472x412x130	472x412x130
Weight (Kg)	57	57
Dimensions (WxH xD) (mm)	618 x 445 x 165	618 x 445 x 165
Ingress Protection (IP) Rating	IP20	IP 20
Ambient Temperature (°C)	-10~55 (>45°C Derating)	-10~55 (>45°C Derating)
Noise Level @ 1m (dB)	≤45 @ 25°C (77°F)	≤45 @ 25°C (77°F)
Type of Cooling	Intelligent Air Cooling	Intelligent Air Cooling
Warranty	1Year	1Year
Display and Communication	LCD + LED, RS485 / Wi-Fi / CAN Optional: 4G	LCD + LED, RS485 / Wi-Fi / CAN Optional: 4G



Service

01 Pre-sales Service (To Partners)

Consulting Service

- Deliver detailed product information in both electronic and paper formats.
- Deliver professional explanation services, detailed introduction of product characteristics, functions, specifications and its unique advantages, so as to help customers fully understand the basic situation of the product.
- Salesmen, technicians and product experts cooperate, and many people provide comprehensive support to achieve seamless connection between offline and online services.

Design Service

- According to customer needs and application scenarios, deliver customers with product selection suggestions and system design.

Training Service

Deliver professional general knowledge technical training courses, not limited to:

- Online Courses (by appointment)
- In-person Courses (by appointment)
- Tape-broadcast courses



02 In-sale Service (To Partners)

1V1 product special technical guidance

Deliver user guidance on product use

Product manual online interpretation (by appointment)

Installation guidance

√ Quick installation instructions and detailed installation

√ Install video tutorials

√ Remote installation guide (reservation)

03 After-Sales Technical Support (To partners & end users)

• After-sales consultation

We offer complimentary after-sales consultation services via multiple channels, ensuring support across the product's full lifecycle.

• After-sales warranty

Hardware warranty period: hybrid inverter 5/10 years, off-grid inverter 1 years, lithium battery 5 years, MPPT 1 year.

During the warranty period, we offer free repair services, replacement of spare parts, and complete product replacement.



Software problems are solved remotely by technicians



After-sales service >>>



Hotline Service

Supporting 24/7 hour online services in multiple languages, making holidays worry-free.



On-Site Service

Remote troubleshooting services are provided online in multiple languages by experienced and dedicated engineers.



Spare Parts Service

Our spare parts network spans 20+ countries, with local warehouses ensuring fast and reliable support.



Training Service

Technical training on Smart PV solutions and products is available for agents and partners, including hands-on training.



Repairing Service

Various maintenance services are provided. Customers can choose the extended service based on the service period.



Warranty Service

During the warranty period, free remote technical support services and spare parts services.

Ktech Official After-sales Service Application Channels



1. Submit after-sales service requests through the WiseHome cloud platform
2. Submit via the official website Support module
3. After-sales service email: info@ktechsolar.com

Contact us

Contact us to learn more
about our products and services,
and help your business grow and innovate.

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