



Facebook



Website

iHEMS[™] Intelligent Home Energy Management System

Inverter and energy storage system solutions

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Business Philosophy

Business Philosophy

Integrate resources and create value together



Promote intelligent energy management and strive for global energy conservation and emission reduction

Company Mission

Company Introduction

Ktech Energy Co.,Ltd. is a technology - based enterprise dedicated to user - side electrical energy application and storage technology research and development, product manufacturing, and energy management. The headquarters is located in Wuxi, Jiangsu, and branch offices and technical support centers have been established in multiple regions around the world.

The main products cover inverters, solar energy controllers, energy - storage batteries, smart home appliances, and the energy management system iHEMSess™.

The company's founder has been committed to the field of inverters for 17 years, focusing on the research and development of software and hardware technologies, and has successfully launched more than twenty photovoltaic inverter products that meet European and American standards. The power range of these products is between 0.3KW - 50KW, aiming to provide customized and comprehensive intelligent energy management solutions for household and commercial and industrial users.



Global Layout



Headquarters: Wuxi, China

R & D Center: Wuxi Headquarters

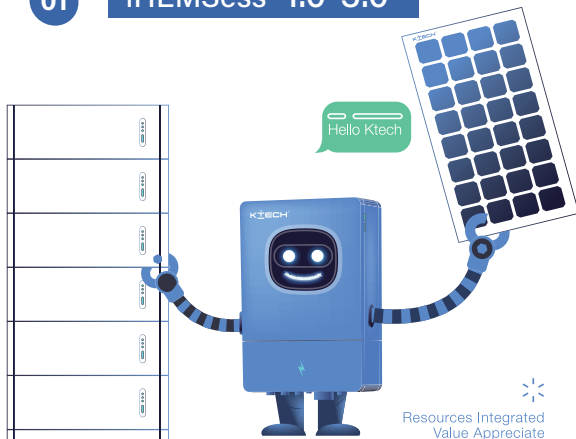
Technical Support: Wuxi Headquarters, Shenzhen Branch, USA, Singapore, Poland, Pakistan, Brazil

STRENGTH

Technical Strength

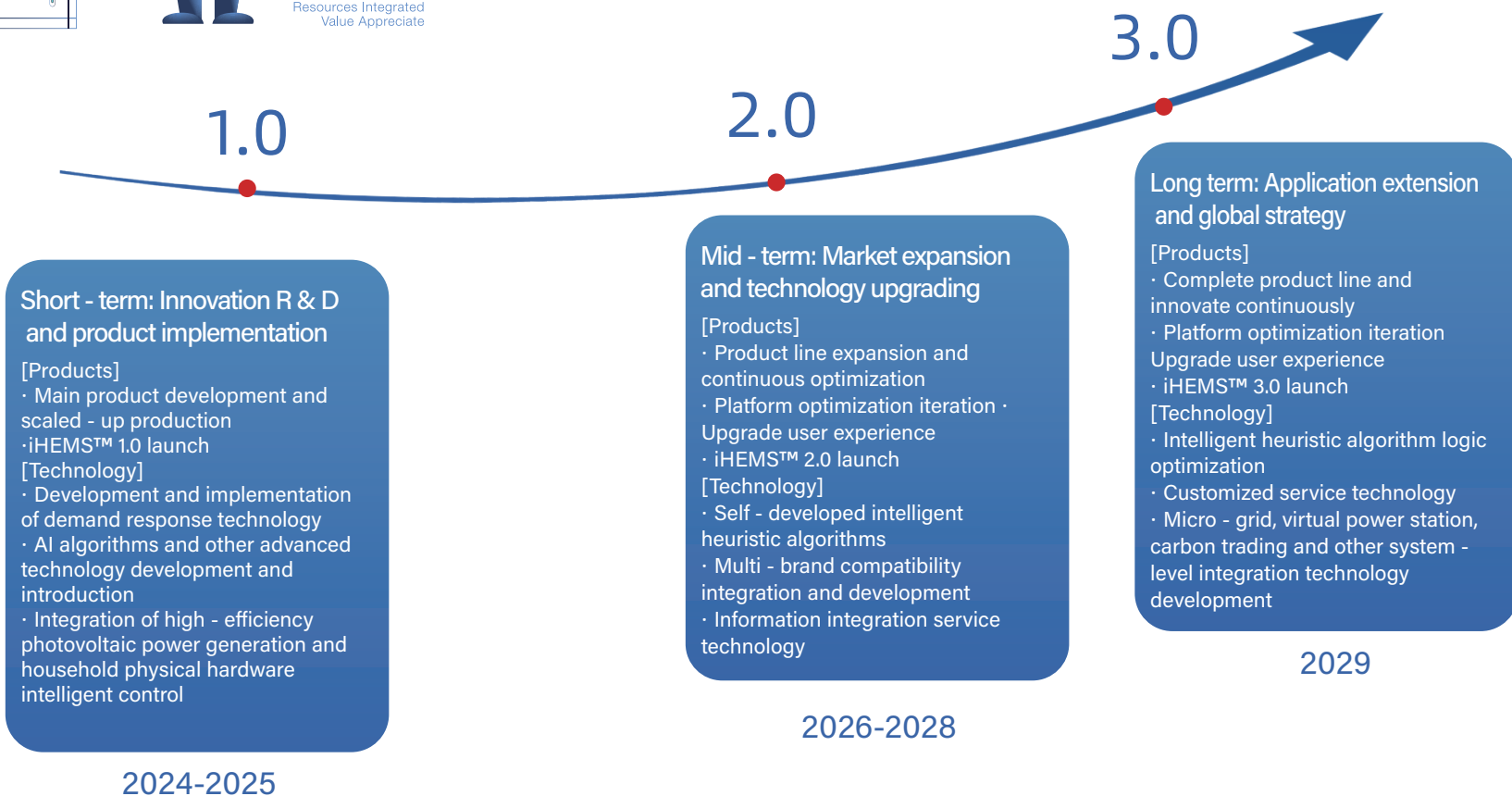
01

iHEMSess™ 1.0-3.0

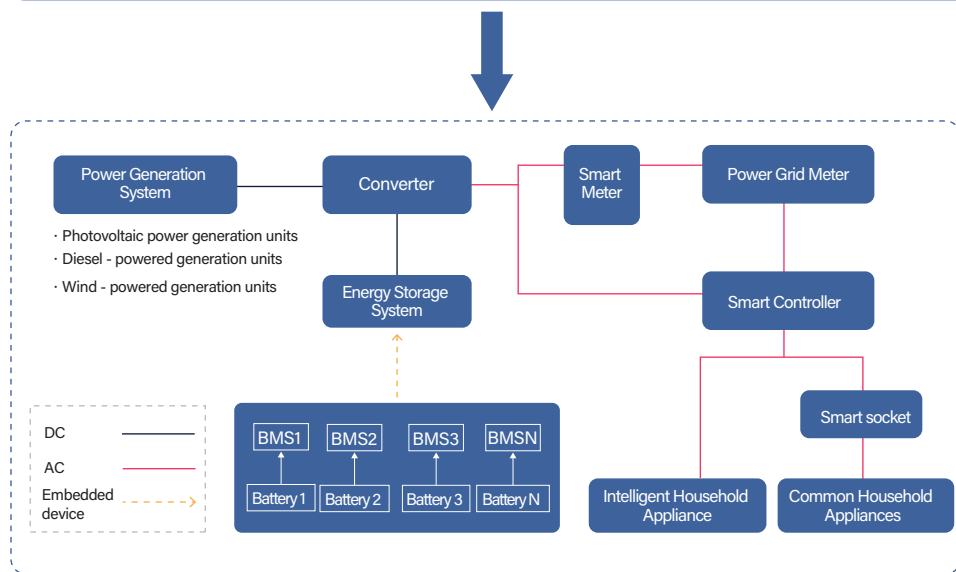


iHEMSess™ (Intelligent Home Energy Management System) is an advanced intelligent home energy management system. The hardware part mainly integrates the power generation system, converter, energy storage system and household physical hardware. The software part integrates intelligent heuristic algorithms, intelligent interconnection, artificial intelligence, big data analysis, machine learning, equipment interoperability and compatibility integration and other cutting-edge technologies, aiming to provide users with more efficient and stable energy management solutions.

iHEMSess™ system can not only manage and control household physical hardware, but also connect to expand application scenarios in the future to provide more comprehensive energy management services. It can not only help household users optimize energy use and reduce energy costs, but also promote energy conservation and emission reduction, supporting global sustainable development.



Energy Control Center



02 WiseHome Cloud Platform

WiseHome Cloud Platform is an intelligent management system developed by Ktech, used for optimizing energy storage, inverters, MPPT, and electrical equipment. Both enterprises and household users can efficiently manage photovoltaic power stations through WiseHome, with real-time monitoring of power generation, equipment status, and fault diagnosis.



● Individual users can obtain transparent power - generation data and operation - maintenance support to ensure system stability and earnings.

● Enterprise users can improve operational efficiency, reduce costs, and increase power - generation efficiency and customer satisfaction.

01 It can record the electricity consumption of loads in real-time and the operating status of energy-storage equipment, and quickly detect and diagnose various fault problems.

02 The system supports remote monitoring and maintenance through cloud-end services. Users can remotely operate and set up automation scenarios, intelligently adjust equipment operating status to optimize energy use and reduce costs.

03 WiseHome also provides detailed data analysis reports to help users achieve energy-saving goals.



The WiseHome system allows users to monitor the entire process from power generation to power consumption in real-time, comprehensively managing the energy use of households or enterprises.

03

Research and Development Strength

With strong R&D capabilities, the core team is composed of senior experts, including PhD holders in engineering, senior engineers, and master's degree supervisors, all possessing extensive research experience and technical accumulation.

01 Research and development personnel

- The R&D team consists of more than 50 people
- Covers hardware engineers, software engineers, embedded engineers and structural engineers.
- Pre-sales/Sales-in-progress/After-sales Technical Support Engineer.

03 Average educational background and average age

- The R & D team has rich experience and innovative capabilities
- 2 with Doctoral Degree, 4 with master's degrees
- 7 have overseas and top - tier enterprise backgrounds
- 8 graduated from double - first - class universities
- The average age is 32 years old

02 R & D achievements

- Self-developed energy management platform, WiseHome, has obtained 4 patents.
- Obtained 5 invention patents and more than 80 utility model patents.
- Successfully developed all models of European-standard hybrid inverters for household energy storage.
- Successfully developed all models of American-standard hybrid inverters for household energy storage.

04 Honors obtained

- The R & D team has won multiple honors in the industry, such as technological innovation awards and excellent product awards.
- The company has been selected as a small and medium - sized enterprise of science and technology

20 **+YEARS**

R & D EXPERIENCE IN THE
NEW ENERGY INDUSTRY

50 **+PEOPLE**

R & D PERSONNEL

7 **MAJOR TECHNICAL
SUPPORT CENTERS**

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

Quality Assurance



QUALITY CONTROL SYSTEM

Standardized process: Adopt internationally recognized quality management system to regulate the production and service process, to ensure that every link meets the standards.

Whole-process monitoring: from raw material procurement to production, inspection, packaging and shipment, professionals will strictly monitor.

Automation and testing equipments: The introduction of advanced automated production lines and testing equipments to ensure production accuracy and product consistency.

STRICT QUALITY CONTROL

Conduct strict tests to ensure that the product qualification rate is as high as 99%: Before leaving the factory, each inverter will go through a series of strict functional tests, environmental adaptability tests, and performance tests, including:

Overload protection test: Ensure that the inverter will not malfunction under heavy load conditions.

Efficiency test: Ensure that the conversion efficiency of the inverter reaches the industry-leading level.

Electrical performance test: Check whether the output voltage, current, and power of the inverter meet the requirements.

High-temperature and low-temperature resistance tests: Ensure the stability of the inverter in different environments and its adaptability to extreme climatic conditions.

The inverter runs under full load conditions for no less than 48 hours to ensure that it can still operate efficiently under long-term and high-intensity work.

Electromagnetic Compatibility (EMC) test: Ensure that the inverter will not cause electromagnetic interference to other devices and, at the same time, complies with global electrical standards.

SELECTION OF HIGH-QUALITY MATERIALS

Carefully selecting to ensure quality. We always adhere to the use of high-quality raw materials in the market, such as Infineon, TI, Toshiba, YAGEO, and establish long-term partnerships with leading suppliers around the world to ensure that every product is made of materials in accordance with strict industry standards. Our material purchasing team carefully selects each raw material according to the functional requirements of the product, and strives to do the best in every detail.

STRICTLY FOLLOW INTERNATIONAL STANDARDS

We ensure that every inverter has passed stringent international certifications, making it safe, reliable, and of excellent performance.

American Standard Certification: UL certification, meeting the high-standard requirements of the American market.

European Standard Certification: IEC 62109-1/2 and CE certifications, satisfying the energy efficiency and safety regulations of the European market.

Global Universal Certification: EN50549, FCC Class B (Electromagnetic Compatibility), and RoHS (Environmental Protection Directive), which are suitable for the access conditions of multiple countries.

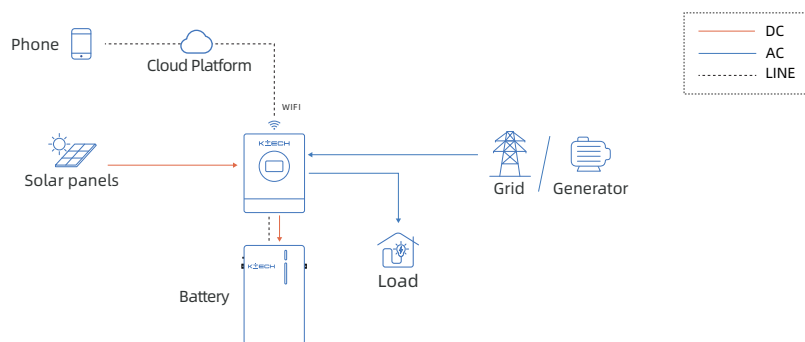
Customized Certification Support: For special markets such as Australia and Southeast Asia, we provide full-process certification assistance to quickly achieve local compliance.

Whether it is a standard requirement or a customized certification, we will fully cooperate to help you efficiently expand into the global market!

Solution

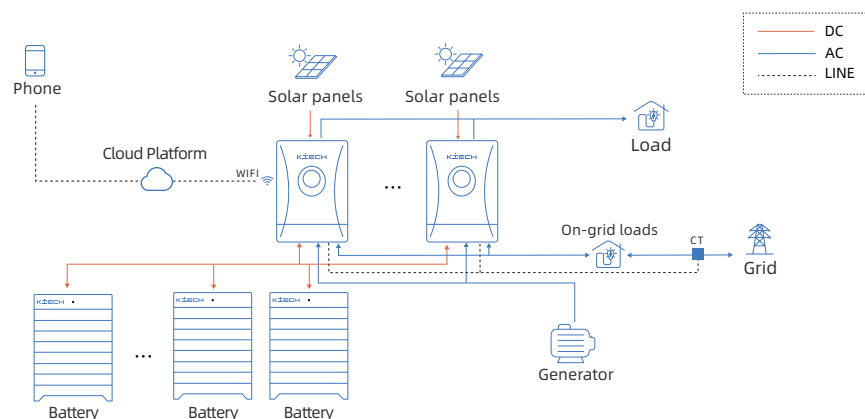
• Household Off-Grid Photovoltaic Energy Storage Solution

The household off-grid photovoltaic energy storage system is suitable for high-rise residences or private residences in areas where the power grid system is not perfect. On sunny days, photovoltaic power can supply power to some loads and charge the battery pack. When there is no photovoltaic power available, the power from the grid can be used to supply power to the loads, thus saving electricity costs, reducing the pressure on the power grid, and also solving the problem of power consumption during peak load periods of the power grid.



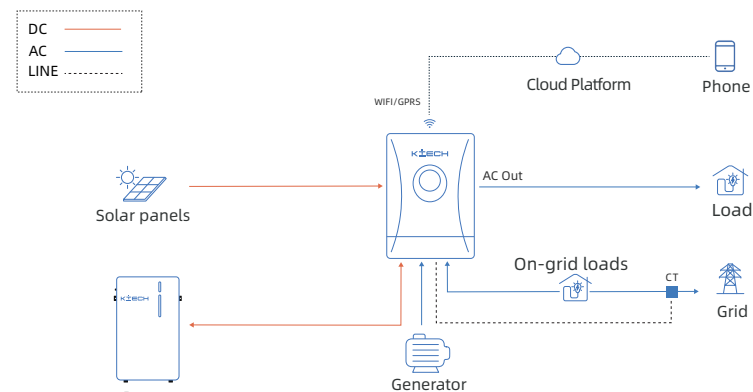
• Small - enterprise Energy Storage Solutions

The energy storage system provides parallel solutions for small - scale enterprises and is suitable for parallel connection. When the energy storage system is used in small - scale machinery and small - scale enterprises, the shutdown/start - up of each machine can be independently controlled. The parallel circuit can connect high - power loads, and the backup battery can connect emergency loads, which can provide power for the power supply and lighting systems in emergency situations.



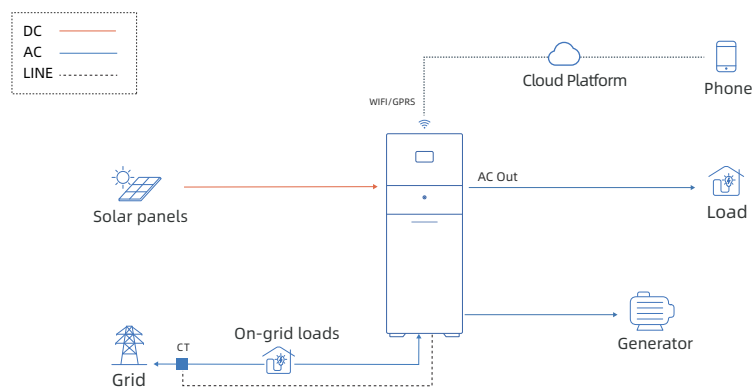
• Hybrid Photovoltaic Energy Storage Solution

The hybrid inverter that can operate in both off-grid and grid-connected modes is, on one hand, suitable for residences in rural and remote areas with unstable power grids. It can meet the daily electricity needs of families, automatically switch to off-grid mode to ensure power supply and enable surplus electricity to be fed into the grid during power outages, maximizing benefits for users. On the other hand, it is also applicable to small farms, homestays, etc. By using self-generated photovoltaic electricity for self-consumption, it saves electricity costs. In case of power grid failures, it ensures the continuous operation of equipment, taking into account both grid-connected energy saving and off-grid emergency needs, and is adaptable to the flexible power supply requirements of small and medium-sized electricity usage scenarios.



• Integrated Photovoltaic Energy Storage Solution

The integrated photovoltaic energy storage solution integrates power conversion and energy storage. It greatly reduces the installation difficulty. When grid-connected, it can efficiently utilize photovoltaic power, prioritize supplying power to loads, store surplus electricity or feed it into the grid. In case of power outage, it automatically switches to off-grid mode and relies on stored energy to ensure power supply. It is adaptable to various scenarios, taking into account energy conservation and emergency needs, and provides users with a flexible and stable power solution.



ODM Customized Service

01 CUSTOMIZATION TO MEET DIVERSE NEEDS



We provide comprehensive ODM (ORIGINAL DESIGN MANUFACTURING) customization services for clients, capable of offering comprehensive solutions from design to production based on clients' specific requirements. Whether it is in terms of product appearance, functionality, technical specifications, or packaging, brand customization, etc., we can customize according to client requirements to ensure that each project fully meets the unique needs of the client.

02 PROFESSIONAL DESIGN TEAM SUPPORT

Our R & D team has rich experience and provides new design solutions based on client needs. New product design and optimization and improvement, providing professional advice and design support to ensure excellent performance of products in terms of functionality, appearance, and marketability.



03 FLEXIBLE PRODUCTION CAPACITY



We possess strong production capacity and flexible production lines, enabling efficient production of large - quantity customized products. At the same time, we adopt advanced production management systems to ensure that the production cycle, quality, and delivery time of customized products can meet client requirements.

04 STRICT QUALITY MANAGEMENT

During the ODM customization process, we still adhere to strict quality control standards. From raw material procurement to production, each link undergoes meticulous quality inspection to ensure that customized products meet high standards in terms of performance, appearance, and service life.

05 FULL - PROCESS COMMUNICATION AND FOLLOW - UP

During the ODM customization process, we provide full - process project follow - up services to ensure that each customer's requirements are accurately and flawlessly implemented. Our dedicated project managers will maintain close communication with customers, promptly feedback project progress, and ensure the smooth progress of the customization process.

06 CUSTOMER PRIVACY PROTECTION

We highly value our customers' intellectual property rights and trade secrets. During ODM cooperation, we ensure that customers' design plans and proprietary technologies are fully protected. We sign confidentiality agreements to ensure that customers' creativity and technology are not infringed.

07 ADVANTAGES OF CUSTOMIZATION SERVICES

Precisely meet market demands: Obtaining products that meet requirements.
Unique brand value: Customers' brand image and characteristics.
Dedicated after - sales support: Customized products enjoy dedicated after - sales service and technical support.

Five major ODM customization directions



Appearance

Design/color/size/material/craftsmanship (smooth surface, frosted)



Specifications

Parameters/performance



Structure

Internal structure/integration/integration/stacking



Program

APP control interface (color, layout, texture)/functional requirements



Communication Protocol

The communication protocol is customized

"ODM SERVICE"

Product Series

KE Series



American Standard Series



European Standard Series

CAN Series



AC-Coupled Inverter

GV Series



GV 200-60



GV 75-15

NP Series



NP-WG165



NP-WG165P2

PowerX Series



PowerX Core M



PowerX Stack

PRODUCT
PRODUCT
PRODUCT



American Standard Split-Phase Hybrid Inverter

KE Series



Models:

| KE-3KD5LSUN

| KE-7KD5LSUN

KE-3K6D5LSUN

| KE-8KD5LSUN

| KE-5KD5LSUN

| KE-10KD5LSUN

| KE-6KD5LSUN



Features

- More optimized insulation impedance detection technology
- Supports the VPP technology
- Certified to UL1741/Rule21/UL991/UL1998
- MPPT tracking efficiency is as high as 99.9%
- Supports in-depth customization
- Protection level IP66

Datasheet

Model	KE-3KD5LSUN	KE-3K6D5LSUN	KE-5KD5LSUN	KE-6KD5LSUN	KE-7KD5LSUN	KE-8KD5LSUN	KE-10KD5LSUN
Batery Input Data							
Battery Type	Lead-acid or Lithium-ion						
Battery Voltage Range (V)	40-60						
Max Charging Current (A)	70	85	120	135	165	180	200
Max Discharging Current (A)	70	85	120	135	165	180	200
String Input Data							
Max Pv Input Power (W)	6000	7200	10000	12000	14000	16000	20000
Max Pv Input Voltage (V)	600						
Start-up Voltage (V)	125						
Mppt Voltage Range (V)	150-525						
Rated Pv Input Voltage (V)	370						
Max Operating Pv Input Current (A)	8+8	9+9	13+13	16+16	18+18	21+21	26+26
Max Input Short-circuit Current (A)	11+11	11+11	16+16	20+20	22+22	25+25	32+32
No. Of Mppt Trackers/ No. Of Strings Mppt Trackers	2/1+1	2/1+1	2/1+1	2/2+1	2/2+1	2/2+2	2/2+2
Ac Input/output Data							
Rated Ac Input/output Active Power (W)	3000	3600	5000	6000	7000	8000	10000
Max Ac Input/output Apparent Power (Va)	3300	3960	5500	6600	7700	8800	11000
Rated Ac Input/output Current (A)	12.5	15	20.8	25	29.2	33.3	41.7
Max Ac Input/output Current (A)	13.7	16.5	22.9	27.5	32.1	36.7	45.8
Max Continuous Ac Passthrough(A)	40						
Peak Power (Off-grid) (W)	2 Times Of Rated Power, 10s						
Power Factor Adjustment Range	0.9-1						
Rated Input/output Voltage/range (V)	100/110/120/127;200/220/240/208;220 0.88Un< U < 1.1Un						
Rated Input/output Grid Frequency/range(Hz)	60/55-65						
Grid Connection Form	2L+N+PE						
Total Current Harmonic Distortion Thdi	<3% (Of Nominal Power)						
Dc Injection Current	<0.5% In						
Efficiency							
Max Efficiency	97.60%						
Euro Efficiency	96.50%						
Mppt Efficiency	>99%						
Communication							
Communication Interface	RS485/RS232/CAN						
Communication Mode	GPRS/WIFI/Bluetooth/4G/LAN(Optional)						
General Data							
Operating Temperature Range	-40~+ 60, >45℃ Derating						
Permissible Ambient Humidity	0-100%						
Permissible Altitude	2000m						
Noise(dB)	<30						
IP Rating	IP66						
Dimensions (Hxwx d mm)	638X363×230 (Excluding Connectors and Brackets)						
Weight (Kg)	33						
Type Of Cooling	Natural Cooling					Intelligent Air Cooling	
Warranty	5 Years / 10Years						
Certification							
Overview	EN50549,IEEE 1547:2018,IEEE 1547.1:2020,UL 1741SB,Rule21 IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2, UL 1741,CSA-C22.2 No.107.1-16, UL991/UL1998,CEC Efficiency,UL 1699B, IEEE2030.5&E5000&E5036, FCC PART 15B						



American Standard Split-Phase Hybrid Inverter

KE Series



Models:

[KE-5KD6LSUN](#)[KE-10KD6LSUN](#)[KE-6KD6LSUN](#)[KE-12KD6LSUN](#)[KE-8KD6LSUN](#)

Features

- Built-in disconnecter
- More optimized insulation impedance detection technology
- Support VPP technology
- Grid-connected and off-grid operation; Support parallel connection of multiple batteries
- Support deep customization
- Protection class IP66
- UL1741/Rule21/UL991/UL1998 certification

Datasheet

Model	KE-5KD6LSUN		KE-6KD6LSUN	KE-8KD6LSUN	KE-10KD6LSUN	KE-12KD6LSUN
Input DC						
Max Input Voltage	600V					
Rated Voltage	370V					
Start-up Voltage	125V					
Mppt Voltage Range Mppt	150-525V					
Max Input Current Perstring	26A					
Max Short Circuit Current Per String	32A					
Number Of Mppts / Number Of Strings Per Mppt	2/1+1			2/2+2		
Energy Storage						
Battery Type	Lithium-ion					
Battery Voltage Range	40 - 60 V					
Max Charge / Discharge Current	120A	135A	180A	200A	220A	
Ac Output (Grid)						
Rated Output Power	5000W	6000W	8000W	10000W	12000W	
Max Apparent Output Power	5000VA	6000VA	8000VA	10000VA	12000VA	
Rated Output Voltage	100/110/120/127V;200/220/240V;208V;220V					
Rated Frequency	50/60Hz					
Thdi	<0.3%					
AC Input (Grid)						
Input Voltage Range	0.88Un < U < 1.1Un					
Bypass Current	100A					
Max Input Current	31.2A	37.6A	50A	62.5A	75A	
Efficiency						
Max Efficiency	97.3%	97.7%	97.8%			
European Efficiency	96.6%	97.1%	97.5%			
AC Output (Backup And Off-grid)						
Rated Output Power	5000W	6000W	8000W	10000W	12000W	
Max Apparent Output Power	9kVA , 10s	10.8kVA , 10s	14.4kVA , 10s	18kVA , 10s	21.6kVA , 10s	
Back-up Switch Time	< 10 ms					
Rated Output Voltage (L1-L2)	240 V					
Rated Grid Frequency	60 Hz					
Rated Ac Output Current	20.8A	25A	33.3A	41.7A	50A	
Max Output Overcurrent Protection, 10 S	33.3A	40A	53.3A	66.7A	80A	
Power Factor	> 0.99 (0.8 Leading - 0.8 Lagging)					
Protection						
Ground Fault Detection	Yes					
Residual (Leakage) Current Detection	Yes					
Integrated AfcI	Yes					
Dc Reverse-polarity Protection	Yes(PV Only)					
Protection Class / Over Voltage Category	I / II					
General Data						
Dimensions (Hxwx d)	725 × 492 × 220 mm			755 × 562 ×220 mm		
Weight	24 kg			33 kg		
Topology	Transformerless					
Operating Ambient Temperature Range	-13°F to 140°F (-25°C to 60°C)					
Ingress Protection	TYPE 4X					
Noise (Typical)	< 30 dB(A)					
Cooling Method	Natural Cooling					
Max Operation Altitude	13,120 ft (4000 m)					
Communication	RS485, Optional: Bluetooth , Cellular, Wi-Fi, LAN					
Certification Overview	UL1741SB, IEEE1547-2018, UL1699B, UL1998, FCCPart15ClassB, California Rule21, NEC 690.12-2020, CAN/CSA C22.2107.1-1, HECO Rule 14H, Luma Listed					



American Standard Three-Phase Hybrid Inverter

KE Series



Models:

[KE-30KD5H3UN](#)[KE-50KD5H3UN](#)[KE-40KD5H3UN](#)[KE-60KD5H3UN](#)

Features

- More optimized insulation resistance detection technology
- Supports VPP technology
- Supports higher charge - discharge current
- Supports fuel generator connection
- MPPT self - tracking efficiency up to 99%
- 140V power supply voltage support

Datasheet

Model	KE-30KD5H3UN	KE-40KD5H3UN	KE-50KD5H3UN	KE-60KD5H3UN
Input data (PV)				
Max Allowable PV Power (STC)	39,000W	52,000W	65,000W	78,000W
Max Power Point Tracking Voltage Range	150-500V			
Startup Voltage	180V			
Max Input Voltage	550V		1,000V	
Max Input Current per MPPT	36A			
Max Short - Circuit Current per MPPT	55A			
MPPT Tracker Quantity	4			
Max Power of PV Strings per MPPT	2			
Max AC Coupled Input	30,000W	40,000W	50,000W	60,000W
AC Output Data				
Nominal AC Voltage (3Φ)	120/208V		277/480V	
Grid Frequency	50/60Hz			
Max Continuous Power (3Φ)	30,000W	40,000W	50,000W	60,000W
Max Output Current	83.4A	111.2A	60.2A	72.3A
Peak Current Power (10s, Islanding, 3Φ)	45,000VA	60,000VA	75,000VA	90,000VA
Max Grid - Through Current (10 minutes)	200A			
Grid - Through Current	180A			
Output Power Factor Range	+/- 0.8 Adjustable			
Reserve Transfer Time	5ms (Adjustable)			
CEC Efficiency	0.965			
Max Efficiency	0.975			
Stackability	10			
Battery Input Data (DC)				
Supported Battery Chemistry Types	Lithium battery			
Number of Battery Inputs	2			
Battery Input Terminal Rated Value	50A			
Nominal DC Voltage	≥300V	≥400V	≥500V	≥600V
Operating Voltage Range	160-500V	160-600V		160-700V
Battery Capacity Range	50 — 9900Ah			
Max Battery Charge/Discharge Current	100A (50A per input terminal)			
Battery Controller Type	CC/CV - BMS Controlled			
Grid - to - Battery Efficiency	0.96			
Automatic Generator Start (AGS)	Double - wire Start - Integrated			
BMS Communication	CAN(Controller Area Network)			
General Data				
Dimensions (Hx W x D)	528 x 894 x 295 mm			
Weight	80 Kg			
IP Rating	IP66			
Operating Temperature	-40 – 60°C, >45°C Derating			
Noise	< 30 dB			
Idle Consumption - No Load	60W			
Communication and Monitoring	Including Wi - Fi (wireless network) and LAN (local area network) hardware			
Warranty	5 Years/10 Years			
Certification				
Overview	UL 1741-2021 (UL1741SB), CSA C222 No 107.1-16, IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0), UL 1741 CRD-PCS, UL1699B, CEC, SGIP, CSIP			

European Standard Single-Phase Hybrid Inverter

KE Series



Models:

KE-3KD5L1EN

KE-7KD5L1EN

KE-3K6D5L1EN

KE-8KD5L1EN

KE-5KD5L1EN

KE-10KD5L1EN

KE-6KD5L1EN

Features

- **Support sodium-ion batteries**
- More optimized insulation resistance detection technology
- Supports VPP technology
- Supports higher charge - discharge current
- Supports fuel generator connection
- MPPT self - tracking efficiency up to 99%
- Beautiful appearance, simple installation and convenient to use
- Equipped with comprehensive safety protection from software to hardware

Datasheet

Model	KE-3KD5L1EN	KE-3K6D5L1EN	KE-5KD5L1EN	KE-6KD5L1EN	KE-7KD5L1EN	KE-8KD5L1EN	KE-10KD5L1EN
Battery Input Data							
Battery Type	Lead-acid or Lithium-ion/ Sodium-ion Battery(Optional)						
Battery Voltage Range（V）	40-60/ 30-70(Optional)						
Max Charging Current（A）	70	85	120	135	165	180	200
Max Discharging Current（A）	70	85	120	135	165	180	200
String Input Data PV							
Max PV Input Power（W）	6000	7200	10000	12000	14000	16000	20000
Max PV Input Voltage（V）	600						
Start-up Voltage（V）	125						
MPPT Voltage Range（V）	150-525						
Rated PV Input Voltage（V）	370						
Max Operating PV Input Current（A）	13+13				26+26		
Max Input Short-Circuit Current（A）	17+17				34+34		
No. of MPPT trackers/ No. of Strings MPP trackers	2/1+1				2/2+2		
AC Input/Output Data							
Rated AC Input/Output Active Power（W）	3000	3600	5000	6000	7000	8000	10000
Rated AC Input/Output Current（A）	13.7/13.1	16.4/15.7	22.7/21.7	27.3/26.1	31.9/30.5	36.4/34.8	45.5/43.5
Max Continuous AC Bypass Current（A）	40						
Off-grid Peak Power（W）	2 Times Of Rated Power, 10s						
Rated Input/Output Voltage（V）	220/230，0.85Un-1.1Un						
Rated Input/Output Grid Frequency（Hz）	50/45-55，60/55-65						
Grid Connection Type	L+N+PE						
DC Injection Current	<0.5% In						
Efficiency							
Max Efficiency	97.60%						
European Efficiency	96.50%						
MPPT Efficiency	>99%						
Communication							
Communication Interface	RS485/RS232/CAN						
Communication Method	GPRS/WIFI/Bluetooth/4G/LAN(Optional)						
General							
Operating Temperature Range（℃）	-40 to + 60，>45℃ Derating						
Allowable Humidity	0-100%						
Allowable Altitude	2000m						
Noise（dB）	<30						
IP Rating	IP66						
Overvoltage Category	OVC II(DC), OVC III(AC)						
Dimensions(HxWxD mm)	638×363×230（Excluding Connectors and Brackets）						
Weight（kg）	30						
Cooling Method	Natural Cooling					Intelligent Air Cooling	
Warranty	5 Years/10 Years						
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						

European Standard Three-Phase Hybrid Inverter

KE Series



Models:

KE-6KD5H3EN

KE-15KD5H3EN

KE-8KD5H3EN

KE-20KD5H3EN

KE-10KD5H3EN

KE-25KD5H3EN

| KE-12KD5H3EN



Features

- Supports VPP technology
- Supports higher charge - discharge current
- Supports fuel generator connection
- MPPT self - tracking efficiency up to 99%
- 140V Low Voltage Support
- More optimized insulation resistance detection technology

Datasheet

Model	KE-6KD5H3EN	KE-8KD5H3EN	KE-10KD5H3EN	KE-12KD5H3EN	KE-15KD5H3EN	KE-20KD5H3EN	KE-25KD5H3EN
Battery Input Data							
Battery Type	Lead-acid or Lithium-ion						
Battery Voltage Range(V)	140-700						
Max Charging Current (A)	30	37					50
Max Discharging Current (A)	30	37					50
String Input Data PV							
Max PV Connection Power(W)	12000	16000	20000	24000	30000	40000	50000
Max PV Input Power(W)	9000	12800	16000	19200	24000	32000	32000
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)	20+20			26+20		26+26	
Max Input Short-circuit Current (A)	30+30			39+30		39+39	
No. Of Mppt Trackers/ No. Of Strings Mpp Trackers	2/1+1			2/2+1		2/2+2	
AC Input/output Data							
Rated AC Input/output Active Power(W)	6000	8000	10000	12000	15000	20000	25000
Max AC Input/output Apparent Power(Va)	6600	8800	11000	13200	16500	22000	27500
Rated AC Input/output Active Power(A)	9.1/8.7	12.2/11.6	15.2/14.5	18.2/17.4	22.8/21.8	30.4/29	37.9/36.3
Max ACInput/output Current (A)	10/9.6	13.4/12.8	16.7/16	20/19.2	25/24	33.4/31.9	41.7/39.9
Peak Power (Off - Grid) (W)	1.5 Times Of Rated Power, 10s						
Power Factor Adjustment Range	0.8 Leading to 0.8 Lagging						
Rated Output/input Voltage/range (V)	220/380V, 230/400V 0.85Un-1.1Un						
Rated Input/output Grid Frequency/range (Hz)	50/45-55, 60/55-65						
Grid Connection Type	3L+N+PE						
Total Harmonic Current Distortion Thdi	<3% (Rated Power)						
DC Injection Current	<0.5% In						
Efficiency							
Maximum Efficiency	97.60%						
European Efficiency	97.00%						
Mppt Efficiency	>99%						
Communication							
Communication Interface	RS485/CAN/DRY CONTACT						
Communication Method	GPRS/WIFI/Bluetooth/4G/LAN(Optional)						
General							
Operating Temperature Range (°c)	-40 to +60°C, >45°C Derating						
Allowable Humidity	0-100%						
Allowable Altitude	2000m						
Noise(dB)	≤55						
IP Rating	IP 66						
Dimensions (HxWxD mm)	408×638×237 (Excluding Connectors and Brackets)						
Weight (Kg)	33.5						
Cooling Method	Natural Cooling	Intelligent Air Cooling					
Warranty	5 Years/10 Years						
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						



European Standard Three-Phase Hybrid Inverter

KE Series



Models:

KE-29K9D5H3EN

KE-40KD5H3EN

KE-30KD5H3EN

KE-50KD5H3EN

KE-35KD5H3EN



Features

- More optimized insulation resistance detection technology
- Supports VPP technology
- Supports higher charge - discharge current
- Supports fuel generator connection
- MPPT self - tracking efficiency up to 99%
- 140V Low Voltage Support

Datasheet

Model	KE-29K9D5H3EN		KE-30KD5H3EN	KE-35KD5H3EN	KE-40KD5H3EN	KE-50KD5H3EN
Battery Input Data						
Battery Type	Lead-acid or Lithium-ion					
Battery Voltage Range(V)	140-800					
Max Charging Current (A)	50+50					
Max Discharging Current (A)	50+50					
String Input Data PV						
Max PV Connection Power(W)	59800	60000	70000	80000	100000	
Max PV Input Power(W)	47840	48000	56000	64000	80000	
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)	36+36+36			36+36+36+36		
Max Input Short-circuit Current (A)	55+55+55			55+55+55+55		
No.Of Mppt Trackers/ No.Of Strings Mpp Trackers	3/2+2+2			4/2+2+2+2		
AC Input/output Data						
Rated AC Input/output Active Power(W)	29900	30000	35000	40000	50000	
Max AC Input/output Apparent Power(Va)	32890	33000	38500	44000	55000	
Rated AC Input/output Active Power(A)	45.4/43.3	45.5/43.5	53.1/50.8	60.7/58	75.8/72.5	
Max AC Input/output Current (A)	49.8/47.9	50/47.9	58.4/55.8	66.7/63.8	83.4/79.8	
Max Continuous Ac Pass-through (Grid To Load) (A)	200					
Peak Power (Off - Grid) (W)	1.5 Times Of Rated Power, 10s					
Power Factor Adjustment Range	0.8 Leading to 0.8 Lagging					
Rated Output/input Voltage/range (V)	220/380V, 230/400V 0.85Un-1.1Un					
Rated Input/output Grid Frequency/range (Hz)	50/45-55, 60/55-65					
Grid Connection Type	3L+N+PE					
Total Harmonic Current Distortion Thdi	<3% (Rated Power)					
Dc Injection Current	<0.5% In					
Efficiency						
Max Efficiency	97.60%					
European Efficiency	97.00%					
Mppt Efficiency	>99%					
Communication						
Communication Interface	RS485/CAN/DRY CONTACT					
Communication Method	GPRS/WIFI/Bluetooth/4G/LAN(Optional)					
General						
Operating Temperature Range (°c)	-40 to +60°C, >45°C Derating					
Allowable Humidity	0-100%					
Allowable Altitude	2000m					
Noise(dB)	≤65					
IP Rating	IP 66					
Dimensions (HxWxD mm)	527×894×294 (Excluding Connectors and Brackets)					
Weight (Kg)	80					
Cooling Method	Intelligent Air Cooling					
Warranty	5 Years/10 Years					
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					



American Standard On-Grid Inverter

KE Series



Models:

[KE-3K6E51UA](#)[KE-7KE51UA](#)[KE-5KE51UA](#)[KE-10KE51UA](#)[KE-6KE51UA](#)

Features

- Max efficiency reaches 97.8%
- TYPE 4X protection, adaptable for placement in complex environments
- Built - in integrated protection and rapid shutdown device
- Supports string detection and monitoring,
- and night - time power supply function

Datasheet

Model	KE-3K6E51UA	KE-5KE51UA	KE-6KE51UA	KE-7K6E51UA	KE-10KE51UA
DC Input					
Max Input Voltage	600V				
Rated Voltage	330V				
Start-up Voltage	120V				
Mppt Voltage Rangemppt	90-520V				
Max Input Current	14A/14A	14A/14A/14A			4×14A
Max Short Circuit Current	22A/22A	22A/22A/22A			4×22A
Mppt Number / Max Input Strings Number	2/2	3/3			4/4
AC Output					
Rated Output Power	3.6kW	5kW	6kW	7.6kW	10kW
Max Apparent Output Power	3.6kVA	5kVA	6kVA	7.6kVA	10kVA
Max Output Power	3.6kW	5kW	6kW	7.6kW	10kW
Rated Grid Voltage	1Φ/PE,240/208				
Rated Grid Frequency	50/60Hz				
Max Output Current For 240v Grid	15A	20.8A	25A	31.7A	41.7A
Max Output Current For 208v Grid	17.3A	24A	28.8A	36.5A	43.3A
Power Factor	>0.99(0.8 Leading - 0.8 Lagging)				
Thdi	<0.3%				
Efficiency					
Max Efficiency	97.3%	97.7%	97.8%		
Cec Efficiency	96.6%	97.1%	97.5%		
Protection					
DC Reverse-polarity Protection	Yes				
Ground Fault Monitoring	Yes				
Islanding Protection	Yes				
Integrated Afci	Yes				
Integrated Dc Switch	Yes				
Multi-peak Scan	Yes				
Rapid Shutdown	Built-In APS or Tigo FSD				
Surge Protection	DC Type III / AC Type III				
General Data					
Dimensions (H × W × D)	810 × 355 × 165mm		732 ×335 × 249 mm		
Weight	15.2 kg		21 kg		21.2 kg
Topology	Transformerless				
Self-consumption (Night)	<1W				
Relative Humidity	0-100%				
Operating Ambient Temperature Range	-13°F to 140°F (-25°C to 60°C)				
Storage Environment	-13°F to 176°F (-25°C to 80°C)				
Ingress Protection	TYPE 4X				
Noise(Typical)	< 30 dB(A)				
Cooling Method	Natural Cooling				Intelligent Air Cooling
Max Operation Altitude	13,120 ft (4000 m)				
Compliance	UL1741SB, IEEE 1547-2018, UL1699B, UL1998, FCC Part15 ClassB, California Rule 21, HECO Rule 14H, NEC 690.12-2020, CAN/CSA C22.21071-1				
Features					
DC Connection	1 knockout for 3/4" conduit at bottom, side and back, Screw clamp terminal				
AC Connection	1 knockout for 3/4" conduit at bottom, side and back, OT terminal				
Display	LCD				
Communication	RS485, Optional: Cellular, Wi-Fi				



American Standard On-Grid Inverter

KE Series



Models:

[KE-30KE53UA](#)[KE-40KE53UA](#)[KE-50KE53UA](#)[KE-60KE53UA](#)

Features

- Maximum efficiency reaches 98.8% (CEC efficiency 98.3%)
- TYPE 4X protection, adaptable for placement in complex environments
- Built - in integrated protection and rapid shutdown device
- Supports string detection and monitoring, and night - time power supply function

Datasheet

Model	KE-30KE53UA		KE-40KE53UA		KE-50KE53UA		KE-60KE53UA		
DC Input									
Max Input Voltage		1000V							
Rated Voltage		720V							
Start-up Voltage		180V							
Mppt Voltage Range Mppt		180-1000V							
Max Input Current		40A/40A/40A				4×40A			
Max Short Circuit Current		63A/63A/63A				4×60A			
Mppt Number / Max Input Strings Number		3/6				4/8			
Output AC									
Rated Output Power		30kW		40kW		50kW		60kW	
Max Apparent Output Power		30kVA		40kVA		50kVA		60kVA	
Max Output Power		30kW		40kW		50kW		60kW	
Rated Grid Voltage		3Φ/PE, 480 V							
Rated Grid Frequency		50/60 Hz							
Max Output Current		36.1A		48.1A		60.1A		72.2A	
Power Factor		>0.99(0.8 Leading - 0.8 Lagging)							
Thdi		<0.3%							
Efficiency									
Max Efficiency		98.80%							
Cec Efficiency		98.30%							
Protection									
Dc Reverse-polarity Protection		Yes							
Short Circuit Protection		Yes							
Output Over Current Protection		Yes							
Surge Protection		DC Type II / AC Type II							
Grid Monitoring		Yes							
Islanding Protection		Yes							
Temperature Protection		Yes							
Strings Monitoring		Yes							
I/V Curve Scanning		Yes							
Multi Peak Scan		Yes							
Integrated Afc		Yes							
Integrated Pid Recovery		Optional							
Integrated Dc Switch		Yes							
Integrated Ac Switch		Yes							
General Data									
Dimensions (H × W × D)		550 × 785 × 320 mm							
Weight		43.7 kg		478 kg		49.3 kg		50.1 kg	
Topology		Transformerless							
Self-consumption (Night)		<1W							
Relative Humidity		0-100%							
Operating Ambient Temperature Range		-13°F to 140°F (-25°C to 60°C)							
Ingress Protection		TYPE 4X							
Noise		≤ 55 dB(A)							
Cooling Concept		Natural Cooling							
Max Operation Altitude		13,120 ft (4000 m)							
Compliance		UL1741SB, IEEE 1547-2018, UL1699B, UL1998, FCC Part15 ClassB, California Rule 21, Heco Rule 14H, NEC 690.12-2020, CAN/CSA C22.21071-1							
Features									
DC connection		MC4 Connector							
AC connection		OT Terminal (4 AWG to 3/0 AWG)							
Display		LCD							
Communication		Modbus RTU (Sunspec compliant), RS485, Optional: Cellular, Wi-Fi							



European Version On-Grid Inverter

KE Series



Models:

- KE-5KE51EA
- KE-6KE51EA
- KE-7KE51EA
- KE-7K6E51EA
- KE-8KE51EA
- KE-10KE51EA



Datasheet

Model	KE-5KE51EA	KE-6KE51EA	KE-7KE51EA	KE-7K6E51EA	KE-8KE51EA	KE-10KE51EA
DC Input						
Max Input Voltage(V)	600					
Mppt Voltage Range(V)	40-560					
Start-up Voltage(V)	50					
Rated Input Voltage(V)	360					
Max Input Current Per Mppt Channel(A)	21		20			
Max Short-circuit Current Per Mppt Channel(A)	26					
Number Of Mppts	2					
Number Of Strings Per Mppt	1					
AC Output						
Rated Output Power(W)	5000	6000	7000	7600	8000	10000
Max Apparent Output Power(W)	5500	6600	7700	8360	8800	11000
Max Output Apparent Power(W)	5500	6600	7700	8360	8800	11000
Rated Output Voltage(V)	220,L/N/PE					
Output Voltage Frequency(Hz)	50/60					
Max Output Current(A)	25	30	35	38	40	50
Max Total Harmonic Distortion	<3%					
Power Factor	>1(0.8 Leading...0.8 Lagging Adjustable)					
Efficiency						
Max efficiency	98.1%		98%			98.1%
Chinese efficiency	96.9%	97.1%	97.5%			
Protection						
String Current Monitoring	Integration					
DC Insulation Impedance Detection	Integration					
Residual Current Monitoring	Integration					
Input Reverse Connection Protection	Integration					
Anti-islanding Protection	Integration					
AC Overcurrent Protection	Integration					
AC Short-Circuit Protection	Integration					
AC Overvoltage Protection	Integration					
DC Switch	Integration					
DC Surge Protection	Secondary					
AC Surge Protection	Secondary					
DC Arc Protection	Optional					
Night-time Power Supply	Optional					
General Data						
Operating Temperature Range (°C)	-25~+60					
Relative Humidity	0~100%					
Max Operating Altitude(m)	<4000					
Cooling Method	Natural Cooling					
Human-Machine Interaction	LED+LCD/WiFi+APP/Bluetooth+APP		LED, LCD(optional) , WLAN+APP			
Communication	RS485, WIFI, LAN, Bluetooth , 4G					
Weight	9.2		16			
Dimensions (H x W x D mm)	323x358x165		365x500x187			
Noise (dB)	25		<30			
Topology	Non-isolated Type					
Self-consumption (night)(W)	< 1					
IP Rating	IP66					
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					



European Version On-Grid Inverter

KE Series



Models:

KE-29K9E53EA	KE-36KE53EA
KE-30KE53EA	KE-40KE53EA
KE-33KE53EA	KE-50KE53EA



Features

- Maximum efficiency reaches 98.8%
- High conversion efficiency , reducing energy consumption, achieving energy saving and cost reduction
- Equipped with an integrated arc - fault circuit breaker to reduce fire risks
- Adaptable to different climatic environments, with an IP66 protection rating
- Supports string detection and monitoring, and night - time power supply function

Datasheet

Model	KE-29K9E53EA	KE-30KE53EA	KE-33KE53EA	KE-36KE53EA	KE-40KE53EA	KE-50KE53EA
DC Input						
Recommended Max. Pv Power	44.85kW	45 kW	49.5 kW	54 kW	60 kW	75 kW
Max Input Voltage	1100V					
Rated Voltage	600V					
Start-up Voltage	180V					
Mppts Voltage Range	200-1000V					
Max Input Current	32A/32A/32A			4 × 32 A		
Max Short Circuit Current	40A/40A/40A			4 × 40 A		
Mppts Number / Max Input Strings Number	3/6			4 / 8		
AC Output						
Rated Output Power	29.9kW	30 kW	33 kW	36 kW	40 kW	50 kW
Max Apparent Output Power	32.9kVA	33 kVA	36.3 kVA	39.6 kVA	44 kVA	55 kVA
Max Output Power	32.9kW	33 kW	36.3 kW	39.6 kW	44 kW	55 kW
Rated Grid Voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V					
Rated Grid Frequency	50 Hz / 60 Hz					
Rated Grid Output Current	45.5A/43.2A	45.6 A / 43.3 A	50.1 A / 47.6 A	54.7 A / 52.0 A	60.8 A / 57.7 A	76 A/72.2A
Max Output Current	50.1A	50.2 A	55.1 A	60.2 A	66.9 A	83.7 A
Power Factor	> 0.99 (0.8 Leading - 0.8 Lagging)					
Thdi	< 3%					
Efficiency						
Max Efficiency	98.50%		98.6%	98.7%		98.80%
Eu Efficiency	98.10%		98.2%	98.3%		98.40%
Protection						
DC Reverse-polarity Protection	Yes					
Short Circuit Protection	Yes					
Output Over Current Protection	Yes					
Surge Protection	DC Type II / AC Type II					
Grid Monitoring	Yes					
Anti-islanding Protection	Yes					
Temperature Protection	Yes					
Strings Monitoring	Yes					
I/V Curve Scanning	Yes					
Multi Peak Scan	Yes					
Integrated Afci 2.0	Optional					
Integrated Pid Recovery	Optional					
Integrated Dc Switch	Yes					
General Data						
Dimensions (H X W X D)	540 × 670 × 252 mm					
Weight	38.2 kg			42.1 kg		
Topology	Transformerless					
Self-consumption (Night)	< 1W					
Operating Ambient Temperature Range	-25 ~ +60°C					
Relative Humidity	0 - 100%					
IP Rating	IP66					
Noise Emission (Typical)	≤ 60 dB(A)					
Cooling Concept	Intelligent Fan-cooling					
Max Operation Altitude	4000 m					
Communication	RS485, Optional: Wi-Fi, GPRS					
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					

European Version On-Grid Inverter

KE Series



Models:

| KE-5KE53EA

| KE-12KE53EA

| KE-6KE53EA

| KE-15KE53EA

KE-8KE53EA

| KE-20KE53EA

| KE-10KE53EA

| KE-25KE53EA



Features

- Maximum efficiency reaches 98.5%
- High conversion efficiency, reducing energy consumption, achieving energy saving and cost reduction
- Equipped with a DC arc - fault circuit breaker (optional configuration), reducing fire risks
- Communication methods are provided (optional), facilitating user operations
- IP66 protection rating
- Supports string detection and monitoring, and night - time power supply function

Datasheet

Model	KE-5KE53EA	KE-6KE53EA	KE-8KE53EA	KE-10KE53EA	KE-12KE53EA	KE-15KE53EA	KE-20KE53EA	KE-25KE53EA
DC Input								
Recommended Max Input Power	6kW	7.2kW	9.6kW	12kW	14.5kW	18kW	24kW	30kW
Max Input Voltage	1100 V							
Rated Input Voltage	600 V							
Start-up Voltage	180 V							
Mppt Voltage Range	160 - 1000 V							
Max Input Current Perstring	20 A / 18 A					32A/20A	32A/21A	40A/32A
Max Input Short-circuit Current	25 A / 25 A					50A/25A	50A/50A	
Number Of Mppts / Number Of Strings Per Mppt	2 / 2					2/3	2/4	
Ac Output								
Rated Output Power	5 kW	6 kW	8 kW	10 kW	12 kW	15 kW	20 kW	25 kW
Max. Apparent Output Power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	13.2 kVA	16.5 kVA	22 kVA	27.5 kVA
Maximum Active Power	5.5 kW	6.6 kW	8.8 kW	11 kW	13.2 kW	16.5 kW	22 kW	27.5 kW
Rated Grid Voltage	3/N/PE, 220 V / 380 V							
Rated Grid Frequency	50 / 60 HZ							
Rated Output Current	7.6 A	9.1 A	12.2 A	15.2 A	18.2 A	22.8 A	30.4 A	38.0 A
Max. Output Current	8.4 A	10 A	13.4 A	16.7 A	20.1 A	25.1 A	33.5 A	41.8 A
Power Factor	> 0.99 (0.8 Leading - 0.8 Lagging)							
Total Current Harmonic Distortion Rate	< 3%							
Efficiency								
Max Efficiency	98.3%		98.4%			98.4%		98.50%
Chinese Efficiency	97.7%		97.9%			98.0%		98.10%
Protection								
DC Reverse-polarity Protection	Yes							
AC Short-Circuit Protection	Yes							
AC Output Overcurrent Protection	Yes							
Surge Protection	Yes							
Grid Monitoring	Yes							
Islanding Protection	Yes							
Temperature Protection	Yes							
I/V Curve Scanning	Yes							
Multi-peak Scanning	Yes							
Integrated DC Switch	Yes							
DC Arc Fault Protection	Optional							
General Data								
Dimensions (H X W X D)	682 × 520 × 252 mm							
Weight	16.5 kg		17.1 kg			18.4 kg	42.1 kg	
Topology	Transformerless							
Self-consumption (Night)	< 1W							
Operating Ambient Temperature Range	-25 ~ +60°C / 0 ~ 100%							
IP Rating	IP66							
Noise (Typical)	< 30 dB(A)						< 60 dB(A)	
Cooling Method	Natural Cooling			Intelligent Air Cooling				
Max Operation Altitude	4000 m							
Grid-connection Standards	NB/T 32004							
Safety Standards / Emc Standards	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							
Features								
Dc Connection	MC4 connector							
Ac Connection	OT Terminal							
Display	Led Indicator & Bluetooth + App							
Communication	Rs485 / Gprs / 4g							

IP66 Off - Grid Inverter

(European Standard / American Standard)

KE Series



Models:

KE-3KD5L1EF	KE-3KD5LSUF
KE-3KD6D5L1EF	KE-3KD6D5LSUF
KE-5KD5L1EF	KE-5KD5LSUF
KE-6KD5L1EF	KE-6KD5LSUF
KE-7KD5L1EF	KE-7KD5LSUF
KE-8KD5L1EF	KE-8KD5LSUF
KE-10KD5L1EF	KE-10KD5LSUF



Features

- MPPT tracking efficiency up to 99.9%
- Support deep customization
- Protection class IP66
- Higher weather resistance

Datasheet

Model (European Standard)	KE-3KD5L1EF	KE-3K6D5LSUF	KE-5KD5L1EF	KE-6KD5L1EF	KE-7KD5L1EF	KE-8KD5L1EF	KE-10KD5L1EF
Model (American Standard)	KE-3KD5LSUF	KE-3K6D5LSUF	KE-5KD5LSUF	KE-6KD5LSUF	KE-7KD5LSUF	KE-8KD5LSUF	KE-10KD5LSUF
Battery Input Data							
Battery Type	Lead-acid or Lithium-ion						
Battery Voltage Range （V）	40-60						
Max Charging Current （A）	70	85	120	135	165	180	200
Max Discharging Current （A）	70	85	120	135	165	180	200
String Input Data Pv							
Max Pv Connection Power （W）	3900	4680	6500	7800	9100	10400	13000
Max Pv Input Voltage （V）	600						
Start-up Voltage （V）	125						
Mppt Voltage Range （V）	150-525						
Rated Pv Input Voltage （V）	370						
Max Operating Pv Input Current （A）	8+8	9+9	13+13	16+16	18+18	21+21	26+26
Max Input Short-circuit Current （A）	11+11	11+11	16+16	20+20	22+22	25+25	32+32
No. Of Mppt Trackers/strings Mppt Trackers	2/1+1	2/1+1	2/1+1	2/2+1	2/2+1	2/2+2	2/2+2
Ac Input/output Data							
Rated Ac Input/output Active Power （W）	3000	3600	5000	6000	7000	8000	10000
Rated Ac Input/output Current （A）	12.5	15	20.8	25	29.2	33.3	41.7
Max Ac Input/output Current （A）	13.7	16.5	22.9	27.5	32.1	36.7	45.8
Max Continuous Ac Bypass Current （A）	40						
Peak Power (Off - Grid) （W）	2 Times Of Rated Power, 10s						
Rated Input/output Voltage/range （V）	220V(European) 100/110/120/127;200/220/240;208;220(American) 0.88Un< U <1.1Un						
Rated Input/output Grid Frequency/range(Hz)	50/45-55, 60/55-65						
Connection Type	L+N+PE(European)/2L+N+PE(American)						
Efficiency							
Max Efficiency	97.60%						
European Efficiency	96.50%						
Mppt Efficiency	>99%						
Communication							
Communication Interface	RS485/CAN						
Communication Mode	WIFI/Bluetooth/LAN(Optional)						
General Data							
Operating Temperature Range (℃)	-40~+ 60, >45℃ Derating						
Permissible Ambient Humidity	0-100%						
Permissible Altitude	2000m						
Noise (dB)	<30						
IP Rating	IP66						
Dimensions (HXWXD mm)	638×363×230（Excluding Connectors and Brackets）						
Weight (Kg)	30						
Type Of Cooling	Natural Cooling					Intelligent Air Cooling	
Warranty	5 Years/10 Years						
Certification							
Overview	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2, UL1741, UL991/UL1998,UL 1699B, FCC PART 15B IEC/EN 62109-1/-2, EN 61000-6-1/-3, IEC 63027:2023, Rohs						



American Standard Single-Phase/ Split-Phase Off-Grid Inverter

KE Series



Models:

| KE-5KC5L1UF

| KE-5KC6LSUF

| KE-6KC5L1UF

| KE-6KC6LSUF

| KE-7KC5L1UF

| KE-7KC6LSUF



Features

- IP20/IP54, meeting the needs of different scenarios
- Support up to 6 units in parallel
- MPPT tracking efficiency up to 99.9%
- Beautiful appearance, simple installation, and convenient use
- Comprehensive safety protection from software to hardware

Datasheet

Model	KE-5KC5L1UF/KE-5KC6LSUF	KE-6KC5L1UF/KE-6KC6LSUF	KE-7KC6LSUF
Inverter Output			
Rated Output Power	5000W	6000W	7000W
Max Peak Power	10000W	12000W	14000W
Rated Output Voltage	100/110/120/127V;200/220/240V;208V;220V		
Motor Loading Capacity	4.8HP		
Rated Frequency	50/60Hz		
Output Waveform	Pure sine wave		
Switching Time	Typical Value: 10ms,max Value For Single Machine: 20ms,max Value For Parallel Machines: 30ms		
Number Of Parallel Units	6		
Battery			
Battery Type	Lead-acid or Lithium-ion		
Rated Battery Voltage	48V		
Voltage Range	40~60V		
Max Solar Charging Current	120A	120A	120A
Max Mains/generator Charging Current	100A	100A	100A
Max Hybrid Charging Current	120A	120A	120A
Pv Input			
Number Of Mppt Routes	1		
Max Input Power	7500W	9000W	10500W
Max Input Current	27A		
Max Open-circuit Voltage	500V		
Mppt Operating Voltage Range	125~425V		
Mains Power & Generator Input			
Input Voltage Range	90V~140V		
Input Frequency Range	60/55~65Hz		
Bypass Overload Current	63A/45A		
Efficiency			
Mppt Tracking Efficiency	99.90%		
Max Efficiency Of Battery Inversion	93%		
General			
Dimensions (HXWXD mm)	472x365x130mm/472x412x130mm (IP20)		
Weight	14.5kg/16kg (IP20)		
IP Rating	IP20/IP54		
Operating Temperature Range	-10~55°C		
Noise	≤45dB		
Cooling Method	Intelligent Air Cooling		
Warranty	3 Years		
Communication			
Communication Method	GPRS/WIFI/Bluetooth/4G/LAN(Optional)		
Certification			
Overview	UL STD.1741, FCC SDOC Part 15B		



American Standard Split-Phase Off-Grid Inverter

KE Series



Models:

- [KE-8KC5LSUF](#)
- [KE-10KC5LSUF](#)
- [KE-12KC5LSUF](#)



Features

- IP20/IP54 (optional), meeting the usage requirements of different scenarios
- Support up to 6 units in parallel operation for off-grid use, and allow multiple batteries to be connected in parallel
- Dual MPPT channels, with an efficiency of up to 99.9%.
- Support deep customization
- BMS communication protocols can be opened

Datasheet

Model	KE-8KC5LSUF	KE-10KC5LSUF	KE-12KC5LSUF
Inverter Output			
Rated Output Power	8,000W	10,000W	12,000W
Max Peak Power	16,000W	20,000W	24,000W
Rated Output Voltage	100/110/120/127V;200/220/240V;208V;220V		
Motor Loading Capacity	5HP	6HP	
Rated Frequency	50/60Hz		
Output Waveform	Pure sine wave		
Switching Time	10ms		
Number Of Parallel Units	1-6 units		
Overload Protection	Adopts Inverse Time-delay Overload Protection Algorithm		
Battery			
Battery Type	Lithium-ion Battery / Lead-acid Battery / User-defined		
Rated Battery Voltage	48V		
Voltage Range	40~60V		
Max Solar Charging Current	180A	200A	200A
Max Mains/generator Charging Current	100A	100A	100A
Max Hybrid Charging Current	180A	200A	200A
Pv Input			
Number Of Mppt Routes	2		
Max Input Power	7,500W+7,500W		9,000W+9,000W
Max Input Current	22A+22A		
Max Open-circuit Voltage	500V+500V		
Mppt Operating Voltage Range	125 ~ 425V		
Mains Power & Generator Input			
Input Voltage Range	90 ~ 275V		
Rated Frequency	50/60Hz		
Bypass Overload Current	63A		
Efficiency			
Mppt Tracking Efficiency	99.9%		
Max Efficiency Of Battery Inversion	92%		
General			
Dimensions(HXWXD)	620x450x142 mm		
Weight	23.5kg		
IP Rating	IP20/IP54		
Operating Temperature Range	-10~55℃ ,>45℃ Derating		
Noise	<60dB		
Cooling Method	Intelligent Air Cooling		
Warranty	3 Years		
Communication			
Communication Method	Wi-Fi / Bluetooth / RS 485 / CAN / USB / Dry contact		
External Module (Optional)	4G		
Certification			
Overview	UL STD.1741, FCC SDOC Part 15B		



American Standard Split-Phase Off-Grid Inverter

KE Series



UL1741

Models:

- KE-5KF5LSUF
- KE-6KF5LSUF
- KE-12KF5LSUF
- KE-15KF5LSUF



Datasheet

Model	KE-5KF5LSUF	KE-6KF5LSUF	KE-12KF5LSUF	KE-15KF5LSUF
Inverter Output				
Rated Output Power	5000W	6000W	12000W	15000W
Max Peak Power	10000W	12000W	24000W	30000W
Rated Output Voltage	100/110/120/127V;200/220/240V;208;220V			
Motor Loading Capacity	4.8HP		6HP	
Rated Frequency	50/60Hz			
Output Waveform	Pure Sine Wave			
Switching Time	10ms			
Number Of Parallel Units	1-6 Units			
Overload Protection	Adopts Inverse Time-delay Overload Protection Algorithm			
Battery				
Battery Type	Lithium-ion Battery / Lead-acid Battery / User-defined			
Rated Battery Voltage	48V			
Voltage Range	40~60V			
Max Solar Charging Current	120A		240A	260A
Max Mains/Generator Charging Current	100A		140A	160A
Max Hybrid Charging Current	120A		240A	260A
Pv Input				
Number Of Mppt Routes	1		2	
Max Input Power	7500W	9000W	18000W	22500W
Max Input Current	27A		22A+22A	
Max Open-circuit Voltage	500V+500V			
Mppt Operating Voltage Range	125 ~ 425V			
Mains Power & Generator Input				
Input Voltage Range	90 ~ 140V		90 ~ 275V	
Input Frequency Range	50/60Hz			
Bypass Overload Current	45A		200A	
Efficiency				
Mppt Tracking Efficiency	99.9%			
Max Efficiency Of Battery Inversion	93%		92%	
General				
Dimensions (H X W X D)	472 X 412 X 130 mm		650 X 520 X 142 mm	
Weight	17.5kg		29.5kg	
IP Rating	IP20, For Indooruse Only		IP20, For Indooruse Only	
Operating Temperature Range	-10~55°C ,>45°C Derating			
Noise	≤45dB		<60dB	
Cooling Method	Intelligent Air Cooling			
Warranty	3 Years			
Communication				
Communication Method	Wi-fi / Bluetooth / Rs485 / Can / Dry Contact			
External Module (Optional)	4G			
Certification				
Overview	UL1741,FCC SDOC Part 15B			



European Standard Single-Phase Off-Grid Inverter

KE Series



Models:

KE-5KC5L1EF

KE-8KC5L1EF

KE-6KC5L1EF

KE-10KC5L1EF

KE-7KC5L1EF

KE-12KC5L1EF



Features

- Support up to 6 units in parallel
- MPPT tracking efficiency up to 99.9%
- Beautiful appearance, simple installation, and convenient to use
- Comprehensive safety protection from software to hardware

Datasheet

Model	KE-5KC5L1EF	KE-6KC5L1EF	KE-7KC5L1EF	KE-8KC5L1EF	KE-10KC5L1EF	KE-12KC5L1EF
Inverter Output						
Rated Output Power	5000W	6000W	7000W	8000W	10000W	12000W
Max Peak Power	10000W	12000W	14000W	16000W	20000W	24000W
Rated Output Voltage	230V, Single-phase / Parallel Operation For Three-phase					
Motor Loading Capacity	4.8HP			5HP	6HP	
Rated Frequency	50/60Hz					
Output Waveform	Pure Sine Wave					
Switching Time	Typical Value: 10ms,Max Value For Single Machine: 20ms,Max Value For Parallel Machines: 30ms					
Number Of Parallel Units	6					
Battery						
Battery Type	Lead-acid or Lithium-ion					
Rated Battery Voltage	48V					
Voltage Range	40~60V					
Max Solar Charging Current	120A	120A	120A	180A	200A	200A
Max Mains/generator Charging Current	100A	100A	100A	100A	100A	100A
Max Hybrid Charging Current	120A	120A	120A	180A	200A	200A
Pv Input						
Number Of Mppt Routes	1			2		
Max Input Power	7500W	9000W	10500W	7,500W+7,500W		9,000W+9,000W
Max Input Current	27A			22A+22A		
Max Open-circuit Voltage	500V			500V+500V		
Mppt Operating Voltage Range	125~425V					
Mains Power & Generator Input						
Input Voltage Range	170~280V±7V(UPS); 90~280V±7V(APL)					
Input Frequency Range	50/60Hz					
Bypass Overload Current	63A					
Efficiency						
Mppt Tracking Efficiency	99.90%					
Max Efficiency Of Battery Inversion	93%					
General						
Dimensions (H X W X D)	472 x 355 x 130 mm			620 x 450 x 142 mm		
Weight	14.5kg			23.5kg		
IP Rating	IP20/IP54					
Operating Temperature Range	-10~55°C					
Noise	≤45dB			<60dB		
Cooling Method	Intelligent Air Cooling					
Warranty	3 Years					
Communication						
Communication Method	RS485/CAN/GPRS/WIFI/Bluetooth/4G/LAN(Optional)					
Certification						
Overview	IEC/EN 62109-1/-2, EN 61000-6-1/-3, IEC 63027:2023, Rohs					



AC-Coupled Inverter

CAN Series



Models:

[CAN-3K8D5L1EN](#)[CAN-5KD5L1EN](#)[CAN-6KD5L1EN](#)

Features

- LCD+LED-user friendly interface
- IP66 design for outdoor
- Compatible with other brands of inverter
- Various work mode for different application scenarios
- Retrofit any on-grid systems to be able to run battery

Datasheet

Model	CAN-3K8D5L1EN	CAN-5KD5L1EN	CAN-6KD5L1EN
Rated AC Output Power	3800W	5000W	6000W
Nominal Battery System Voltage	48V		
Inverter Output(AC)			
Nominal AC Output Power	3800W	5000W	6000W
Nominal Output Voltage Range	230V;180-280V±5V		
AC Grid Frequency Range	50/60Hz;45~55/55-65Hz		
Nominal Output Current	16.6A	21.7A	26A
Total Harmonic Distortion I(Thdi)@Nominal Output	<3%		
Power Factor At Rated Power	≈1		
Displacement Power Factor	Adjustable From 0.8 Leading To 0.8 Lagging		
Grid Type	Single Phase		
Battery Mode Output(AC)			
Output Rated Power	3800W	5000W	6000W
Nominal Output Voltage;accuracy Range	230V±1%		
Output Ferequency;accuracy Range	50/60Hz(Optional)±0.2%		
Output Rated Current	15.7A	21.7A	26A
Output Waveform	Pure Sine Wave		
Peak Power	5700W/10S	7500W/10S	9000W/10S
Total Harmonic Distortion V(Linear Load)	<3%		
Battery&Charger			
Battery Type	Lead-acid Battery /Lithium Battery		
Battery Voltage	48V±0.3		
Battery Voltage Range	40-60V±0.3		
Max Charging Power	3800w	5000w	6000W
Max Charging Currernt	80A	105A	125A
Efficiency			
Battery Discharge (Full Load)	94.5%		
Max Battery Charging Curent Efficiency	94.5%		
Protection Devices			
Grid Monitoring	Yes		
Output Over Current Protection	Yes		
Output Overvoltage Protection	Yes		
Ground Fault Monitorino	Yes		
General			
Dimensions (H X W X D)	452X350X205 mm		
Weight	24kg		
Communication Interfaces	RS485/RS232/CAN/GPRS/WIFI/Bluetooth/4G/LAN(Optional)		
IP Rating	IP66		
Humidity	0~95%RH(No Condensing)		
Operating Temperature Range	-20°C+60°C With Derating Above 45°C		
Cooling Concept	Natural cooling		
Noise(dB)	≤25		
Altitude	<3000m		
Warranty	5Years/10Years		
Certification&standards	CE-EMC+LVD(EN IEC61000-6-3:2007, EN IEC61000-6-1:2017; EN IEC62477-1:2022)		



Solar Charge Controller

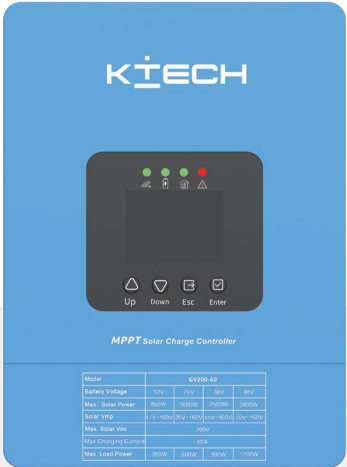
GV Series



Models:

GV 150-60

GV 200-60



- User-friendly interface for easy operation
- Intelligent cooling with complete silence
- MPPT efficiency of 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	10000uF	
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	
IP Rating	IP20	
Weight	5.6Kg	
Communication Mode	RS232 / RS485 / Bluetooth / WIFI	
Altitude	≤ 3000m	
Dimensions (H X W X D)	285x205x93mm	
Warranty	1Year	



Solar Charge Controller

GV Series



Models:

GV 75-15

GV 100-40

GV 100-20

GV 100-50

GV 100-30



Features

- 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	12 V:19 mA	12 V:10 mA
Self-consumption Without Load	24 V:16 mA	24 V:8 mA
Absorption Charging Voltage	14.4 V/28.8 V (adjustable)	
Float Charging Voltage	13.8 V/27.6 V (adjustable)	

Datasheet

Model	GV 100-20	GV 100-30	GV 100-40	GV 100-50
Battery Voltage	12/24Automatic	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	24 V:30 mA 12 V:20 mA	12 V: 30 mA 24 V: 20 mA	12 V: 30 mA 24 V: 20 mA
Absorption Charging Voltage	14.4V/28.8 V/57.6 V(adjustable)	14.4 V/28.8 V(adjustable)	14.4 V/28.8 V(adjustable)	14.4 V/28.8V(adjustable)
Float Charging Voltage	13.8 V/27.6 V/ 55.2 V(adjustable)	13.8 V/27.6 V(adjustable)	13.8 V/ 27.6 V (adjustable)	13.8 V/ 27.6 V(adjustable)



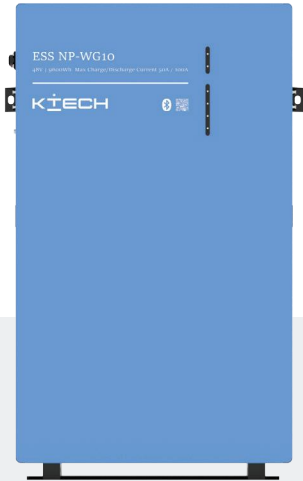
Wall-Mounted Low-Voltage Lithium Battery

NP Series



Models:

- NP-W525
- NP-WG10
- NP-WG15
- NP-WG165



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

Datasheet

Model	NP-W525	NP-WG10	NP-WG15	NP-WG165
Type	LiFePO4			
Capacity	48V 100 AH	48V 200 AH	48V 314 AH	51.2V 320 AH
Rated Energy (Kwh)	4.8	9.6	15	16.4
Usable Energy (Kwh)	4.4	8.8	13.8	15
Peak Output Power (Kw, 3s)	7.68	9.6	9.8	10
Round-trip Efficiency	$\geq 97.5\%$			
Rated Voltage (V)	48	48/51.2		51.2
Operating Voltage (V)	42-55	42-55	42-55	42-55
Maximum Charge/discharge Current (A)	100/100	200/200	200/200	200/200
Communication	CAN, RS485			
IP Rating	IP21			
Operating Temperature (°c)	-15-60°C			
Cooling Type	Natural cooling			
Installation	Wall-mounted and floor-standing			
Cycle Life	> 6,000 times			> 8,000 times
Design Life	10+years (25°C@77°F)			
Recommended Depth Of Discharge (Dod)	90%			
Dimensions (H×W×D mm)	535x395x165	900x395x165	1400x395x165	1400x395x165
Weight (Kg)	47	90	130	136
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			



Wall-Mounted Low-Voltage Lithium Battery

NP Series



Models:

NP-W5P2

NP-WG165P2



Features

- Long service life
- Easy installation
- Flexible expansion
- Strong compatibility
- High-safety lithium iron phosphate (LiFePO₄)

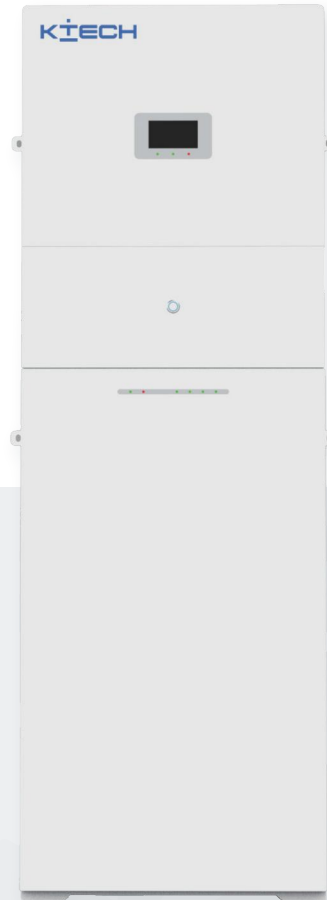
Datasheet

Model		NP-W5P2	NP-WG165P2
Main Parameters			
Type		LiFePO4	LiFePO4
Capacity		100Ah	320Ah(Optional)
Expansion Capability		Maximum support for 12 units in parallel	
Nominal Voltage		51.2V	
Operating Voltage		43.2~57.6V	
Nominal Energy		5.12kWh	16.08kWh
Charge/discharge Current	Recommended	50A	157A
	Maximum	100A	200A
Other Parameters			
Recommended Depth Of Discharge (Dod)		90%	
Cycle Life		≥6000 (25°C+2°C,0.5C,90%DOD,70%SOH)	≥8000 (25°C+2°C,0.5C,90%DOD,70%SOH)
Dimensions (HxWxD)		665x410x181mm	800x505x248mm
Weight (Kg)		51.6kg	124kg
IP Rating		IP66	
Charge/discharge Temperature		Charging: 0°C~60°C; Discharging: -30°C~60°C	
Humidity		5%~95%	
Altitude (M)		<2000m	
Communication Port		CAN & RS485	
Certification		CE UN38.3;IEC62619	



PowerX Core M

PowerX Series



Features

- Supports in-depth customization
- Built-in battery optimizer ensures worry-free mixing of new and old batteries
- Default configuration includes active balancing
- Built-in safety protection device
- High energy density design enables efficient energy storage in a more compact form
- All-in-one units can be horizontally paralleled

Inverter Model

American Standard

- KE-5KC6LSUF/6KC6LSUF/7KC6LSUF
(The parameters are shown on Page 22)
- KE-8KC5LSUF/10KC5LSUF/12KC5LSUF
(The parameters are shown on Page 23)
- KE-5KF5LSUF/6KF5LSUF/12KF5LSUF/15KF5LSUF
(The parameters are shown on Page 24)
- KE-5KC5L1UF/6KC5L1UF
(The parameters are shown on Page 22)

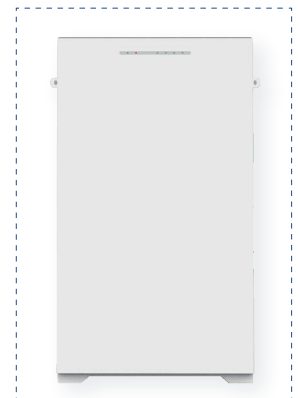


European Standard

- KE-5KC5L1EF/6KC5L1EF/7KC5L1EF/8KC5L1EF/10KC5L1EF/12KC5L1EF
(The parameters are shown on Page 25)

Battery Model

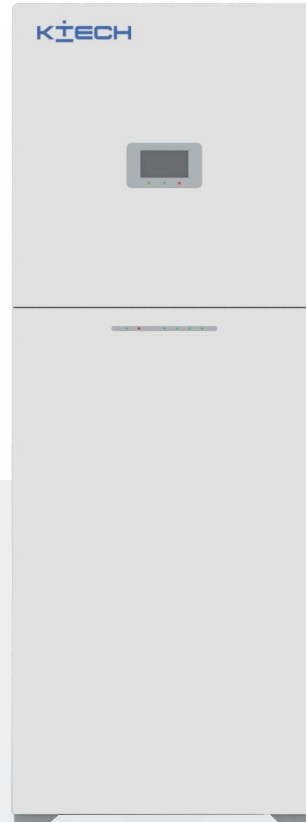
- NP-WG10 (The parameters are shown on Page 29)
- NP-WG15 (The parameters are shown on Page 29)
- NP-WG165 (The parameters are shown on Page 29)





PowerX Core E

PowerX Series



Features

- Supports in-depth customization
- Built-in battery optimizer ensures worry-free mixing of new and old batteries
- Default configuration includes active balancing
- Built-in safety protection device
- High energy density design enables efficient energy storage in a more compact form
- All-in-one units can be horizontally paralleled

Inverter Model

American Standard

- KE-3KD5LSUN/3KD6LSUN/5KD5LSUN
(The parameters are shown on Page 10)
- KE-6KD5LSUN/7KD5LSUN/8KD5LSUN/10KD5LSUN
(The parameters are shown on Page 10)
- KE-5KD6LSUN/6KD6LSUN/8KD6LSUN/10KD6LSUN/12KD6LSUN
(The parameters are shown on Page 11)

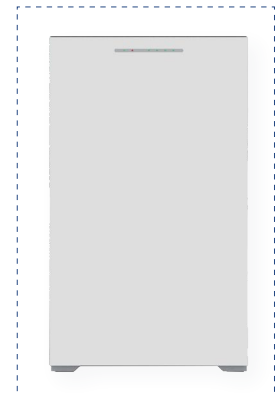


European Standard

- KE-3KD5L1EN/3KD6L1EN/5KD5L1EN/6KD5L1EN
(The parameters are shown on Page 13)
- KE-7KD5L1EN/8KD5L1EN/10KD5L1EN
(The parameters are shown on Page 13)
- KE-6KD5H3EN/8KD5H3EN/10KD5H3EN/12KD5H3EN/15KD5H3EN/20KD5H3EN/25KD5H3EN
(The parameters are shown on Page 14)

Battery Model

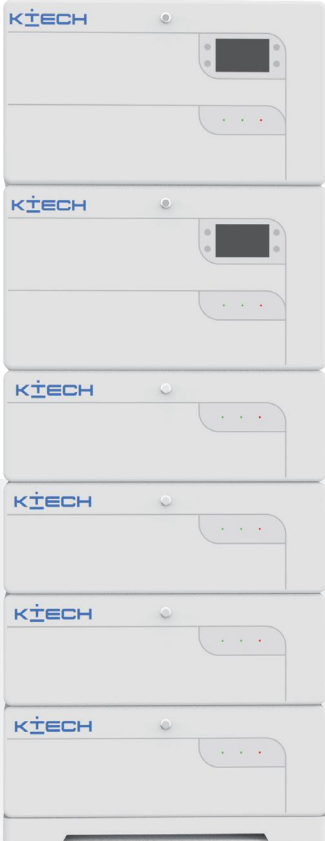
- NP-WG165 (The parameters are shown on Page 29)





PowerX Stack

PowerX Series



Features

- Inverters can be freely paralleled and stacked
- A single-layer battery contains 9 series-connected 320Ah cells
- Supports VPP technology
- Supports in-depth customization
- Protection class IP66
- Built-in battery optimizer ensures worry-free mixing of new and old batteries
- Default configuration includes active balancing
- Built-in safety protection device
- High energy density design enables efficient energy storage in a more compact form
- All-in-one units can be horizontally paralleled

Inverter Model

American Standard

- KE-3KD5LSUN/3K6D5LSUN/5KD5LSUN
(The parameters are shown on Page 10)
- KE-6KD5LSUN/7KD5LSUN/8KD5LSUN/10KD5LSUN
(The parameters are shown on Page 10)

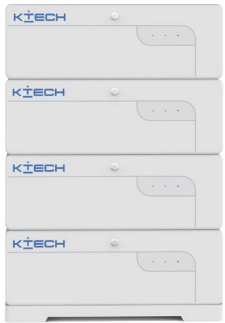
European Standard

- KE-3KD5L1EN/3K6D5L1EN/5KD5L1EN/6KD5L1EN
(The parameters are shown on Page 13)
- KE-7KD5L1EN/8KD5L1EN/10KD5L1EN
(The parameters are shown on Page 13)
- KE-6KD5H3EN/8KD5H3EN/10KD5H3EN/12KD5H3EN/15KD5H3EN/20KD5H3EN/25KD5H3EN
(The parameters are shown on Page 14)



Battery Model

Model	NP-SL6P2	NP-SL9P2
Cell Type	LiFePO ₄	
Cell Capacity	320Ah	
Number Of Cell Cycles	6000 cycles	
Total Battery Capacity	6.15kWh	9.21kWh
Usable Battery Capacity	5.84kWh	8.76kWh
Depth Of Discharge	90%-95%	
Max Charge And Discharge Power	Charging Power: 1920w; Discharging Power: 3744w	Charging Power: 2880w; Discharging Power: 5616w
Peak Charge And Discharge Power (10 Seconds)	4032W	6048W
General Parameters		
Weight	55kg	70kg
Dimensions (HxWxD)	467.5x864x342mm	
Storage Temperature Range	-25 ~ 60°C	
Operating Temperature Range	-20 ~ 55°C	
Operating Relative Humidity	5% ~ 95%	
Max Operating Altitude	4000m	
Cooling Method	Natural convection	
IP Rating	IP66	
Installation Method	Floor-mounted Installation, Wall-mounted Installation	
Number Of Battery Modules	1 ~ 6 PSC	
Communication Method	CAN / RS485	





Service Introduction

01

Pre-sales Service (TO Partners)

Product consulting

- Provide detailed product information in both electronic and paper formats.
- Provide 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.

Selection suggestion

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

Technical training

Provide 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

Provide user guidance on product use

Product manual online interpretation (by appointment)

Installation guidance

- ✓ Quick installation instructions and detailed installation
- ✓ Remote installation guide (reservation)

- ✓ Install video tutorials



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



Service Introduction

03

- After-sales service (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

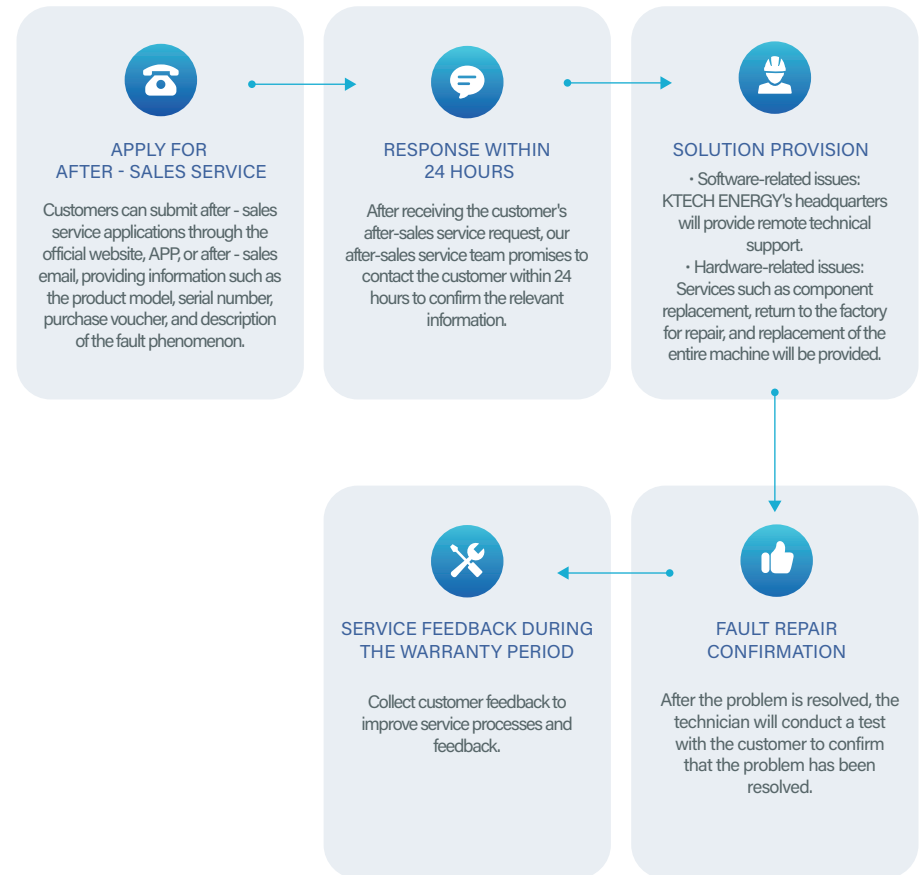
Hardware warranty period: hybrid inverter 5/10 years, off-grid inverter 3 years, lithium battery 5 years, MPPT 1 year.

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 >>>



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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WiseHome



ios/Android



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