

Kehua iStoragE - The Best System for Energy Independence

Investable

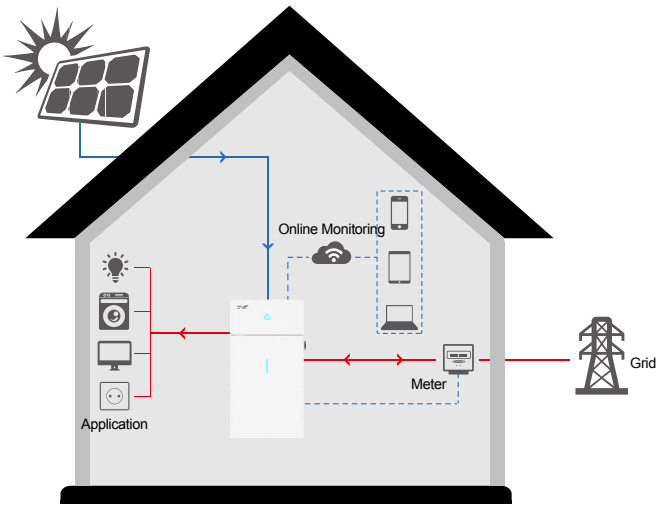
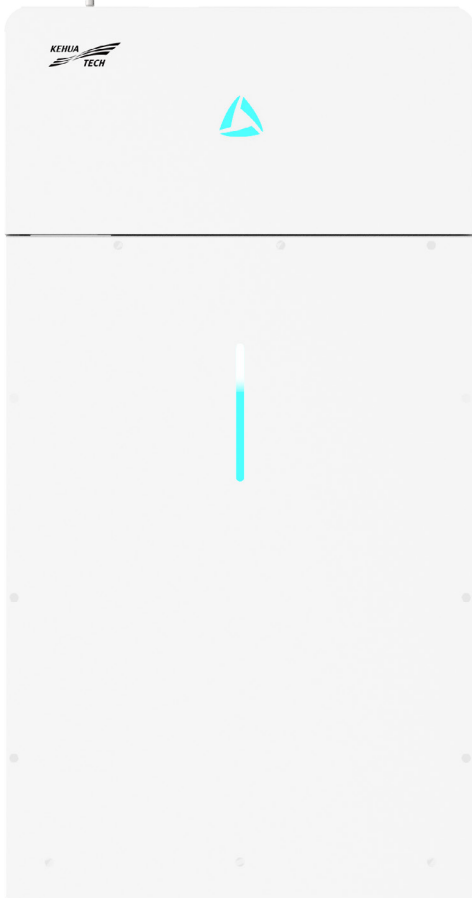
- More flexible application
- Better PV utilization
- Faster charging
- Higher battery efficiency

Intelligent

- User-friendly interface
- Intelligent monitoring
- Smart power grids

Integrated

- Easy installation
- Easy O&M
- Easy capacity expansion
- One-stop for all



Off-grid Compatible

The iStoragE can be installed in a completely off-grid mode where no grid power is available.

Power Export Control

iStoragE system gives you the right to adjust you system export power. If energy export is prohibited, system output will be adjusted according to load status and maximum allowable grid export.

Battery Specification

Items	iStoragE B8
Battery type	LiFePO4
Battery capacity	8.2kWh
Scalable capacity range	8.2~49.2kWh (95%DoD)
Voltage range	240-288V
Operating temperature range	-10°C~50°C*
Cycles	10000**

* Temperature is less than 0°C or more than 40°C, battery performance will decrease

** Under certain test conditions

Inverter Specification

Items	iStoragE3600	iStoragE5000	iStoragE6000
PV Parameters			
Max. PV input power	9000W	9000W	9000W
Max. PV input voltage		580Vdc	
MPPT voltage range		100Vdc~ 550Vdc	
Max input current		15Adc×2	
On-grid Parameters			
Rated output power	3600W	5000W	6000W
Rated input power	7200W	10000W	12000W
Rated output voltage		220/230/240Vac	
Grid frequency range		50/60Hz	
Rated output current	15.7A	21.7A	26.1A
Rated input current	31.4A	43.4A	52.2A
Power factor		>0.99	
Max efficiency		97.70%	
Europe efficiency		97.10%	
THDi		<3%(rated power)	
Back up Parameters			
Rated output voltage		220/230/240Vac	
Output frequency		50/60Hz	
Output power	3600W	5000W	6000W
Transfer time		<10ms	
Voltage harmonic		<2% (rated power)	
Charge-Discharge Parameters			
Rated charging voltage		85Vdc~450Vdc	
Max charging power	3600W	5000W	6000W
Max charging current		32A (settable)	
Max discharging power	5400W	7500W	7800W
System Parameters			
Cooling type		Natural cooling	
IP grade		IP65	
Noise		<25dB	
Display		LED/APP	
Relative humidity		0 ~ 100%, non condensation	
Operating temperature range		-25°C~ +60°C	
Altitude		3000m	
On-grid standard		VDE0126-1-1, VDE-AR-N4105 , AS4777.2/3, CEI 0-21	
Safety		IEC62109-1, IEC62109-2, AS62040-1-1	
EMC		EN61000, IEC62109-1, IEC62109-2	
Communication		RS485, WiFi, Meter	
Accessories		Meter	
Dimensions (W×H×D)		580×1120×230 mm	

Kehua Tech

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Residential Energy Storage System
iStoragE Series

PV+ESS for the Future

Enjoy Energy Independence

With Kehua Energy Storage System + PV, it is now possible to effectively manage day and night solar in your home.

Add in blackout protection and the option to join a virtual power plant to give your customers a complete energy solution.



Use Solar Power More

Self-consumption

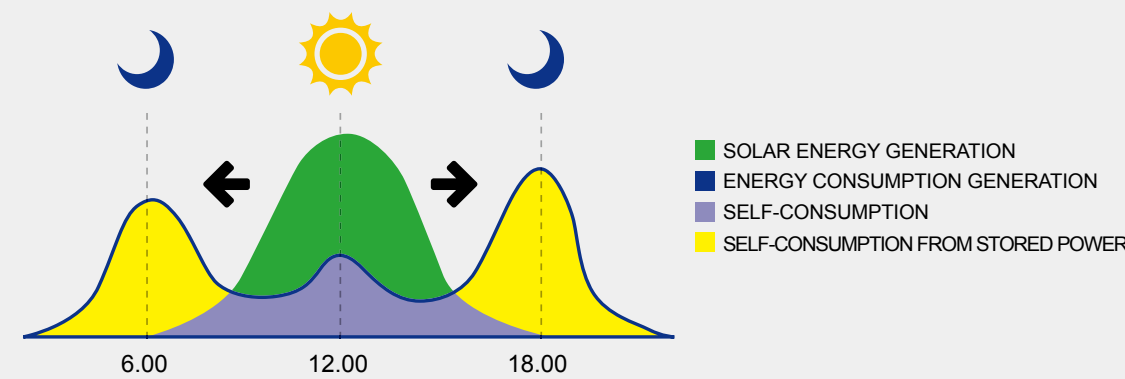
The Kehua iStoragE automatically stores excess solar power during the day for use later in the day or at night without any user input required.

Load Shifting (Peak Shaving)

The Kehua iStoragE provides charge and discharge time settings for customers on Time of Use rate schedules so they can pre-charge when the price of power is low, and save the energy for use when grid power prices are high.

Operation Scheduling

The Kehua iStoragE system is virtual power plant compatible which means that any excess battery energy can be utilized by the grid or electricity retailers to provide additional savings and lead the way towards 100% renewable.



Cloud Compatible Control

The Kehua iStoragE supports remote real time energy monitoring, dispatching, and has an API to connect with virtual power plants or other grid services through the cloud.

Energy Backup (UPS Mode)

Kehua iStoragE can work as an energy backup unit, providing uninterrupted blackout protection when the grid goes down.



Manage Your Energy Anytime, Anywhere

With Kehua WiseSolar, customers can manage and control their energy consumption and production. Available via smartphone or tablet, the APP allows customers to monitor, analyze and control their Kehua iStoragE system from anywhere in the world.