

Why E-KwBe?

- ✖ Small size, Light weight, Large capacity, High energy density, Easy to install
- ⚠ All-aluminum chassis design and heat sink does not require a cooling fan (Passive cooling, Good heat dissipation, Silent)
- ☔ Integrated waterproof front cover design (IP54, For both indoor or outdoor)
- 📊 97% Accurate State Of Charge algorithm with > 97% accuracy
- 🔋 With Active Balance Technology the life span of the battery is prolonged effectively
- 🏠 Meeting the safety requirements of various countries including TÜV certification
- 🔔 The Battery Management System (BMS) monitors the real-time battery operating data to prolong battery life
- 💡 The intelligent BMS automatically identifies the master-slave relationships when additional battery packs are added

Electrical Load Stats

Load	Power (W)	Daily Working Hour	Daily Power Consumption
TV	100	8h	0.8 kWh
Room Lighting	50	8h	2 kWh (5 Rooms)
PC	50	8h	0.4 kWh
Refrigerator	66	24h	1.6 kWh
Washing Machine	500	3h	1.5 kWh
Others	1000	3h	3 kWh



Website for Product Materials: <http://en.gclsi.com/energy-storage-system/>
 Website: <http://en.gclsi.com>
 Email: gclsales@gclsi.com
 Address: 2nd Floor, No.5 Software Building, No.3 Peiyuan Road, SND,Suzhou, Jiangsu Province, China
 Telephone Number: +86 0512-68537399



Place Your **Order** Now!



GCL E-KwBe



Intelligent Energy Storage System
to power your home safely and economically

What is E-KwBe?

E-KwBe is a new modular lithium-ion based energy storage system which can help optimize the use of residential solar energy system, cut the electricity bills and reduce carbon footprint.

E-KwBe appearance is designed in an aesthetically pleasing and modern style with an expected lifespan of more than 10 years. Its modular design allows multiple units to be connected together easily to increase the capacity and reduce the use of fossil fuel progressively.

Lithium Battery

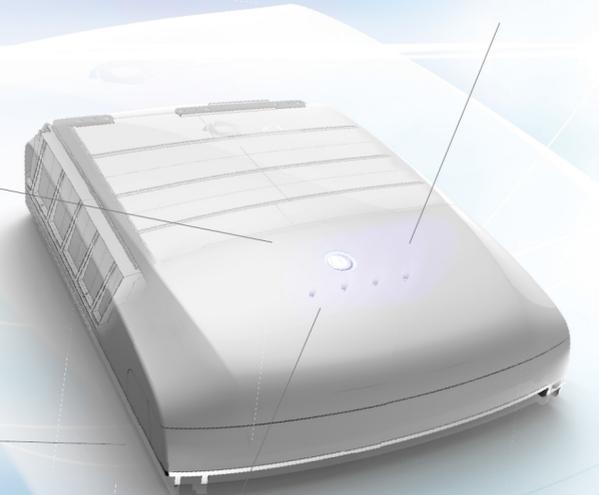
Stable Operation based on serial and parallel connection of LI-NCM-18650 cells



Power on/off

Cable Connect

Battery Capacity Indicator



Features

Optimize the self-consumption solar power

Panels convert sunlight into electricity to charge E-KwBe for home load.

Load shifting

Bridge the gap between peak solar and demand, avoid paying heavy power charges to utility grid.

Emergency Power

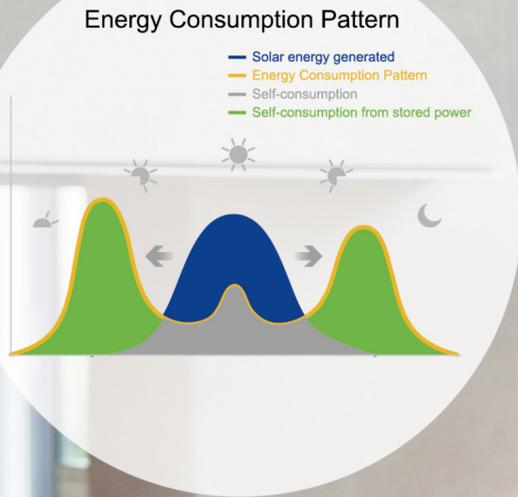
Assures power in the event of an outage

Super Compatibility

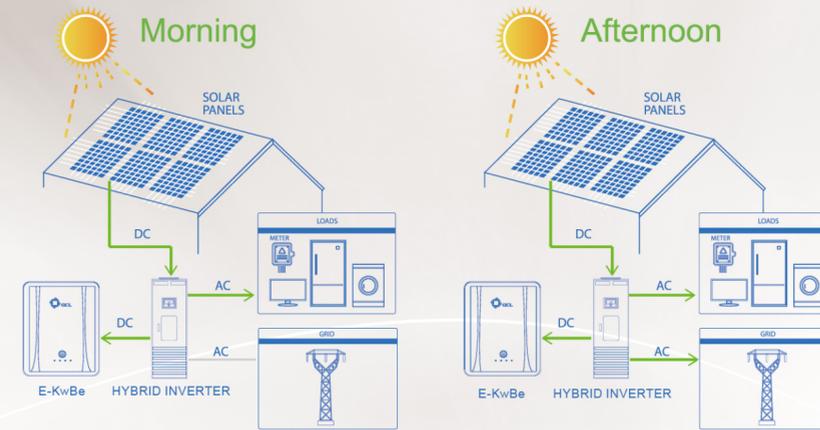
Compatible with mainstream inverters on the market.

Environment Friendly

Maximize the use of free energy from the sun and lower the costly fossil fuel from the grid.

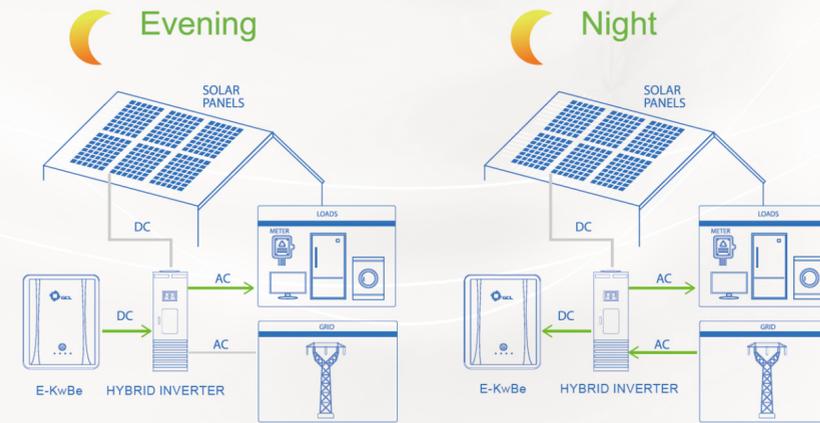


How It Works



Optimized self-consumption will be achieved. Batteries are used to store the excess energy produced by PV System.

Extra energy will be fed into the grid when batteries are fully charged and system has already met its self-consumption requirement.



Batteries will power the AC load when the sun sets.

If the battery capacity is insufficient to meet self-consumption requirement, electricity will be obtained from the grid.

Technical Specification

Model	E-KwBe NC/S 2.5kWh	E-KwBe NC/S 5.6kWh	
Nominal Capacity (subject to compatible inverter)	2.5 kWh	5.6 kWh	
Total Energy	2.75 kWh	6.2 kWh	
DOD (of Total Energy)	90%	90%	
Cell Technology	NCM	NCM	
DC Output	Continuous current at 25 °C	25A	50A
	Peak pulse current at 10s	<150A	<300A
	Peak pulse current at 100ms	<250A	<500A
	Continuous current at 35 °C	20A	40A
	Continuous current at 45 °C	12.5A	25A
Efficiency	>97%		
Voltage	47-60.5V DC		
Nominal Voltage	55.5V DC		
Maximum charging voltage	63V DC		
Operating Condition	Indoor or Outdoor		
Environment Temperature	From -20°C to 45 °C		
Dimension (LxWxH)	669x452x127 mm	700x530x172mm	
Weight	25kg	47.5kg	
Cooling Type	Natural cooling		
Shell Material	Aluminum (Chassis) + PolyCarbonate (Front cover)		
Color	Blue, Red, Gold, Green, White, Gray		
Installation Method	Wall Mounted		
IP Rating	IP54		
Humidity	<95%		
Altitude	<3000m		
Maximum of Series-Parallel	8 (based on inverter function)		
Warranty	7 Years (daily cycle)		
Life Span	>10 Years		
Communication Mode	CAN		
Protection Mode	Triple Hardware Protection (relay, softstart, fuse) and BMS software		
Battery Protection	Over-current, Over-voltage, Short circuit, Under-voltage, Over-temperature, Reversepolarity		
Certification	CE, TÜV, FCC, CSA		
Matched Hybrid Inverter	Sungrow SH5K, Goodwe GW5048D-ES, Goodwe BP		

