



Bringing Green Power to Life

GCL E-KwBe



Intelligent Energy Storage System
to power your home safely and economically

What is E-KwBe

E-KwBe, the energy storage system designed and manufactured by GCL System Integration Technology Co., Ltd. System Integration, helps to optimize the use of solar energy system in house, to cut the electricity bills and reduce carbon footprint.

E-KwBe is designed in an aesthetic and modern appearance with more than 10 years lifespan. Its modular design allows multiple units to be connected easily to extend the storage capacity and reduce the dependency on fossil fuel.

Enjoy the smart energy saving technology from E-KwBe to power your home safely and economically.

Lithium Battery

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

BMS 

Intelligent Management for
Cell Temperature and Operation Status










Power on/off

Cable Connect







Battery Capacity Indicator



Why E-KwBe

-  Easy wall-mounted installation with aesthetic design
-  Light weight, large capacity and high energy density
-  Integrated design of aluminum backsheet with compact passive cooling system (No fan)
-  Excellent water-proof ability (IP 54)
-  Accurate SOC algorithm limits electric error less than 3%
-  More than 10 years lifespan with intelligent BMS
-  Extensively compatible to the mainstream inverters
-  TUV Certified
-  Real-time monitoring on battery operation

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

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 peak demand, avoid paying heavy peak power charges to utility grid.

Emergency Power

Assures power in the event of an outage

Super Compatibility

Compatible with mainstream inverters on the market.

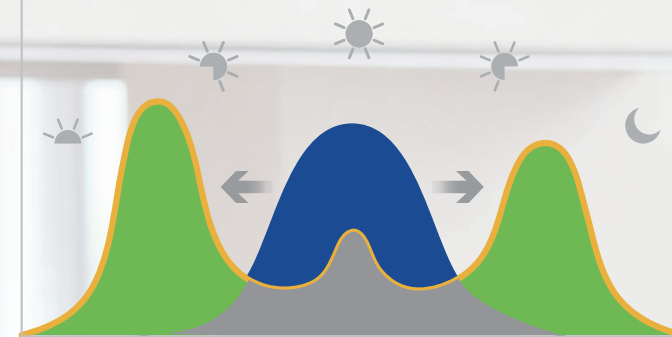
Environment Friendly

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

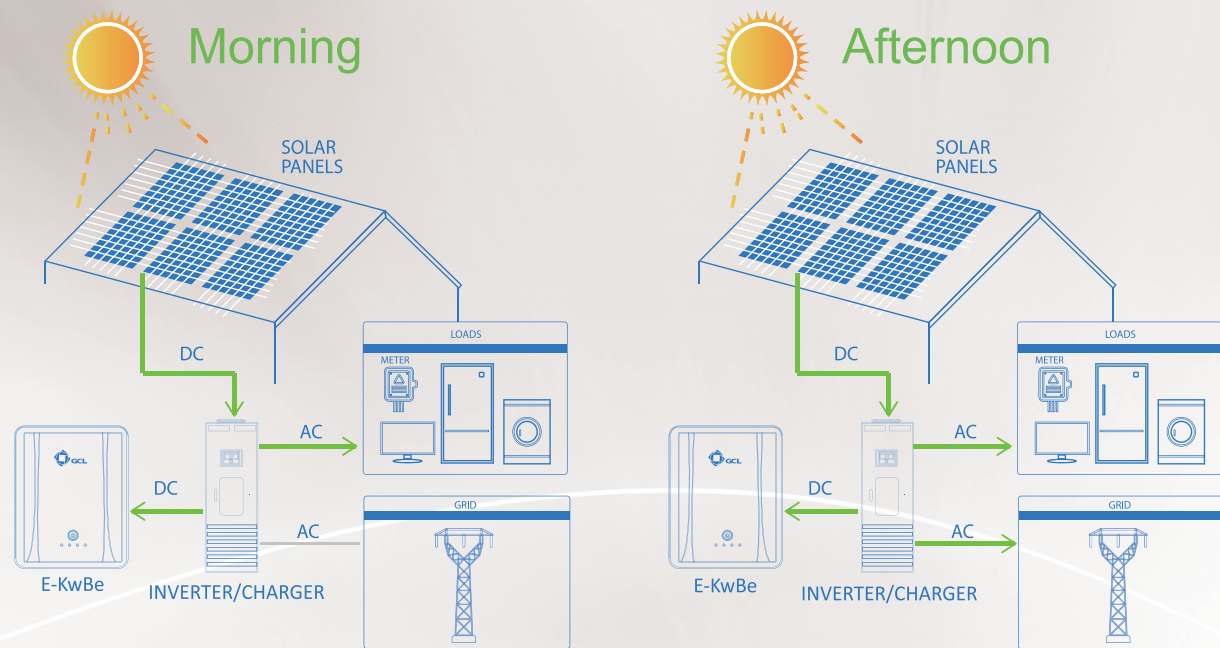


Energy Consumption Pattern

- Solar energy generated
- Energy Consumption Pattern
- Self-consumption
- Self-consumption from stored power

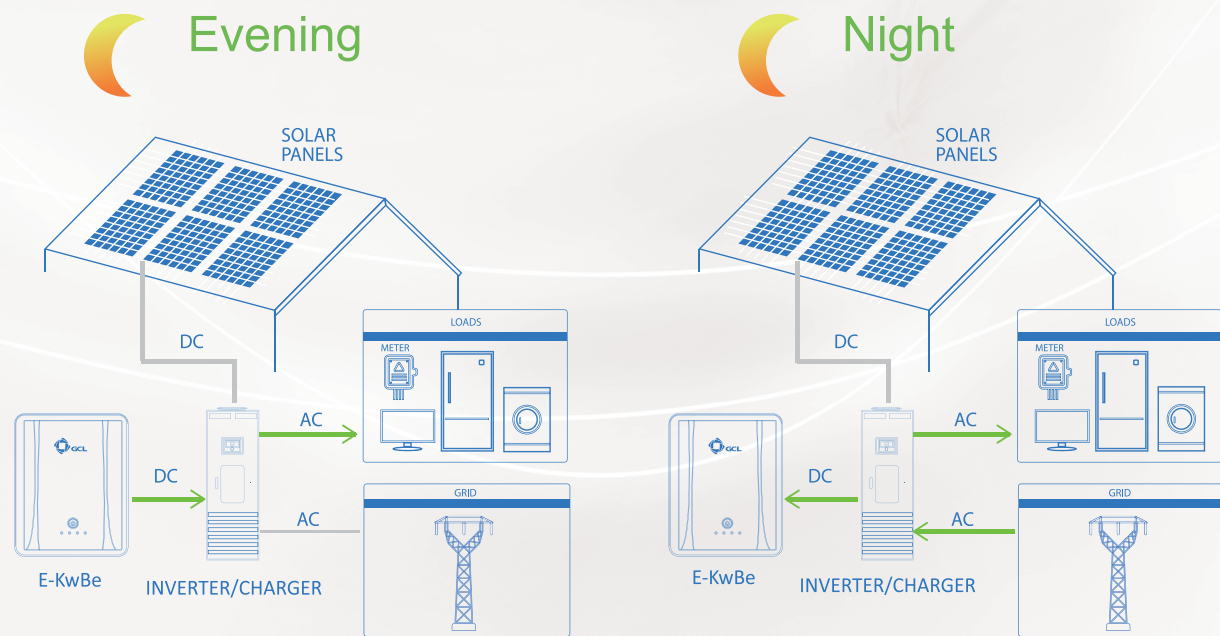


How It Works



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 2.5	E-KwBe 5.6
Capacity	2.5 kWh	5.6 kWh
Nominal Output Power	1.5 KW	3 KW
Working Voltage	DC45-63V	
Operation condition	Indoor or Outdoor	
Ambient Temperature	-20~50 °C	
Ambient Humidity	25~95%	
Dimension (L*W*H)	669*452*127 mm	700*530*172 mm
Weight	25 KG	45 KG
Cooling Mode	Natural cooling	
Shell Material	Al (Backsheet) + PC (Front cover)	
Colour		
Installation Method	Wall Mounted	
IP Rating	IP54	
Maximum of Series-Parallel	8	
Series-Parallel Setting	Auto-detective	
Energy Density	100 Wh/kg	125 Wh/kg
Warranty	7 Years	
Life cycle (2000@80% DOD)	>10 Years	
Communication Mode	RS485/CAN	
Protection Mode	Triple Hardware Protection	
Battery Protection	Over-current、Over-voltage、Short circuit、Under-voltage、Over-temperature	





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Module



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