



Bringing Green Power to Life

GCL E-KwBe



Intelligent Energy Storage System
to power your home safely and economically

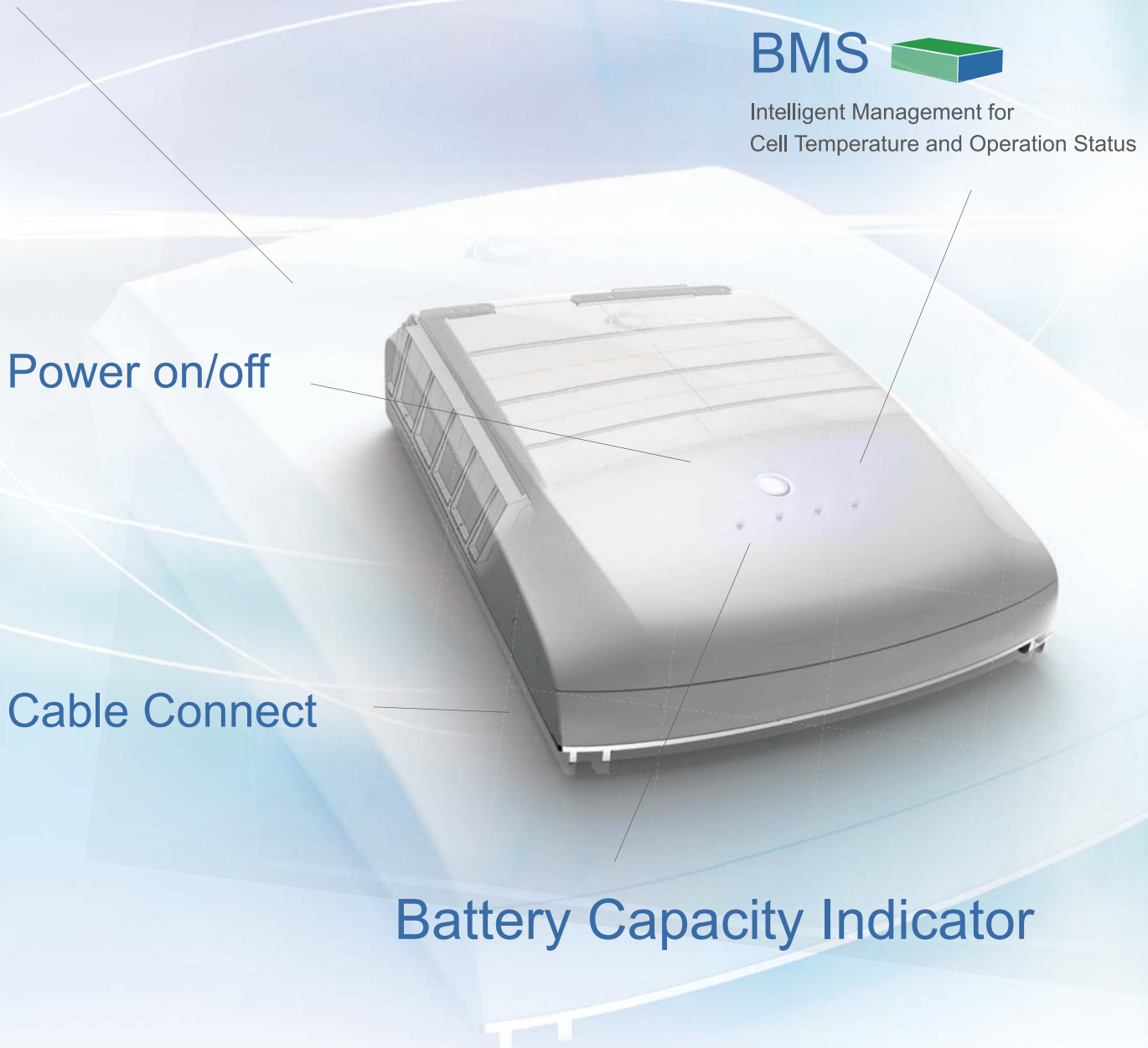
What is E-KwBe?

E-KwBe 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



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

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

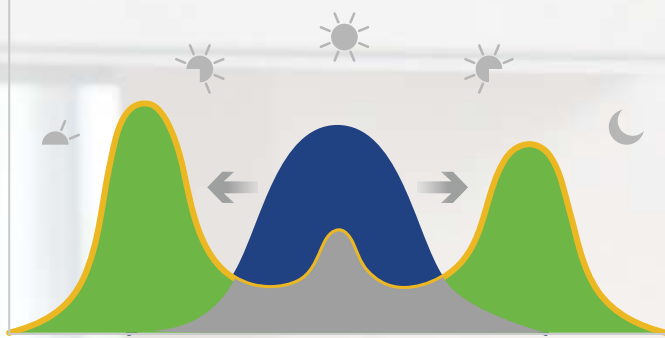
Maximize the use of free energy from the sun and lower the costly fossil fuel from the grid.



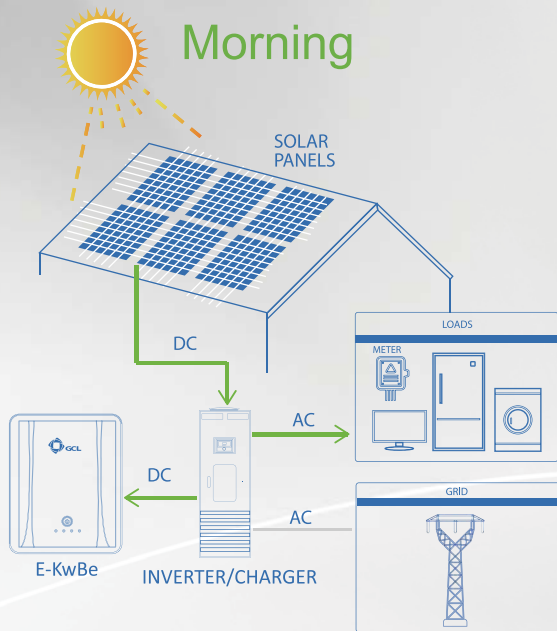


Energy Consumption Pattern

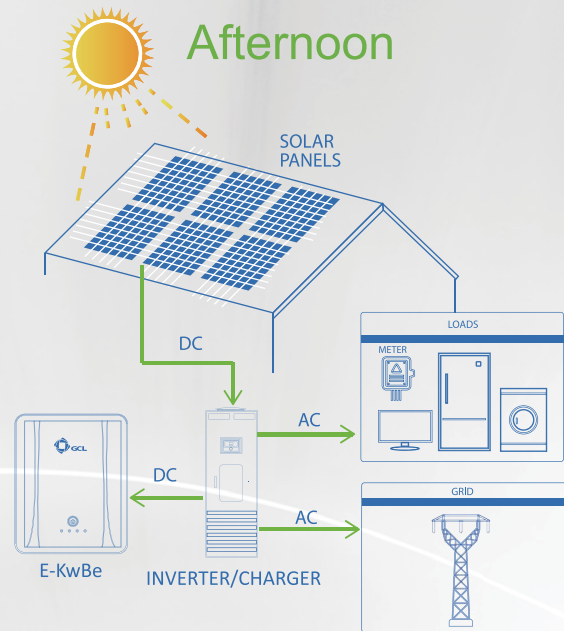
- Solar energy generated
- Energy Consumption Pattern
- Self-consumption
- Self-consumption from stored power



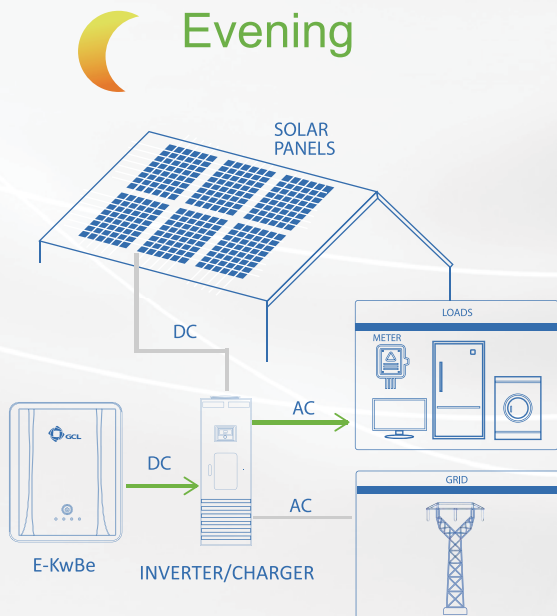
How It Works



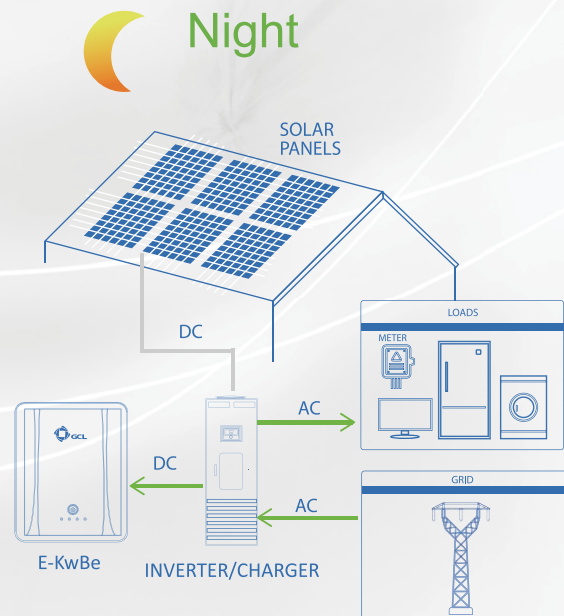
Optimized self-consumption will be achieved. Batteries are used to store the excess energy produced by PV System.



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
Voltage	DC45-63V	
Operating Condition	Indoor or Outdoor	
Operating Temperature	-20~45 C	
Humidity	25~95%	
Dimension (L*W*H)	669*452*127 mm	700*530*172 mm
Weight	25 KG	45 KG
Cooling Type	Natural cooling	
Shell Material	Aluminium (Chassis) + PolyCarbonate (Front Cover)	
Colour	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Installation Method	Wall Mounted	
IP Rating	IP54	
Maximum of Parallel Units	8	
Parallel Setting	Auto Sensing	
Energy Density	100 Wh/kg	125 Wh/kg
Warranty	7 Years (Daily Cycle)	
Life Span	>10 Years	
Communication Mode	RS485/CAN	
Protection Mode	Triple Hardware Protection	
Battery Protection	Over-current, Over-voltage, Short circuit, Under-voltage, Over-temperature, Reverse polarity	





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Module



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