



E-KwBe Data Sheet

Home Energy Storage System

1.0 Preface

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

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

Advantages

- Optimizing the self-consumption of solar power
- Load shifting
- Emergency power
- Super compatibility
- Environmentally friendly

Technical Properties

- 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)
- 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

2.0 Technical Properties of a Single Unit

Model		E-KwBe NC/S 2.5kWh	E-KwBe NC/S 5.6kWh
Total Energy		2.75 kWh	6.2 kWh
Nominal Capacity (subject to compatible inverter)		2.5 kWh	5.6 kWh
DOD (of Total Energy)		90%	90%
Cell Technology		NCM	NCM
DC Output	Continuous current at 25°C	25A	50A
	Maximum pulse current at 10s	<150A	<300A
	Maximum pulse current at 100ms	<250A	<500A
	Continuous current at 35°C	20A	40A
	Continuous current at 45°C	12.5A	25A
Round Trip DC Efficiency		>97%	>97%
Voltage		47V-60.5V DC	47V-60.5V DC
Nominal Voltage		55.5V DC	
Maximum Charging Voltage		63V	
Operating Condition		Indoor or Outdoor	
Operating Temperature		From -20°C to 45°C	
Dimension (L*W*H)		669*452*127 mm	700*530*172 mm
Weight		25 kg	47.5 kg
Cooling Type		Natural cooling	Natural cooling
Shell Material		Aluminum (Chassis) + Poly Carbonate (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, Reverse polarity	
Certification		UN38.3, ISO9001, EMC, TÜV (on process)	
Matched PCS		Sungrow SH5K, Goodwe GW5048D-ES, Goodwe BP	