

# Hearth Low-Voltage Residential ESS(16kWh)

For Flexible Microinverter Systems



Model

**ZT-REES-LV-ST-16k**

**Stackable**



### Modular Stacked Design

Lightweight Battery Modules  
Tool-Free Stacking Design



### Scalable System Capacity

Fast Expansion with 2 Units  
Up to 16 Units Total



### High-Density LFP Battery

314Ah Large-Cell Design  
6000 Cycles at 80% DOD



### High Power Capability

120A Continuous Current  
205A Peak Discharge



### Retrofit-Friendly Integration

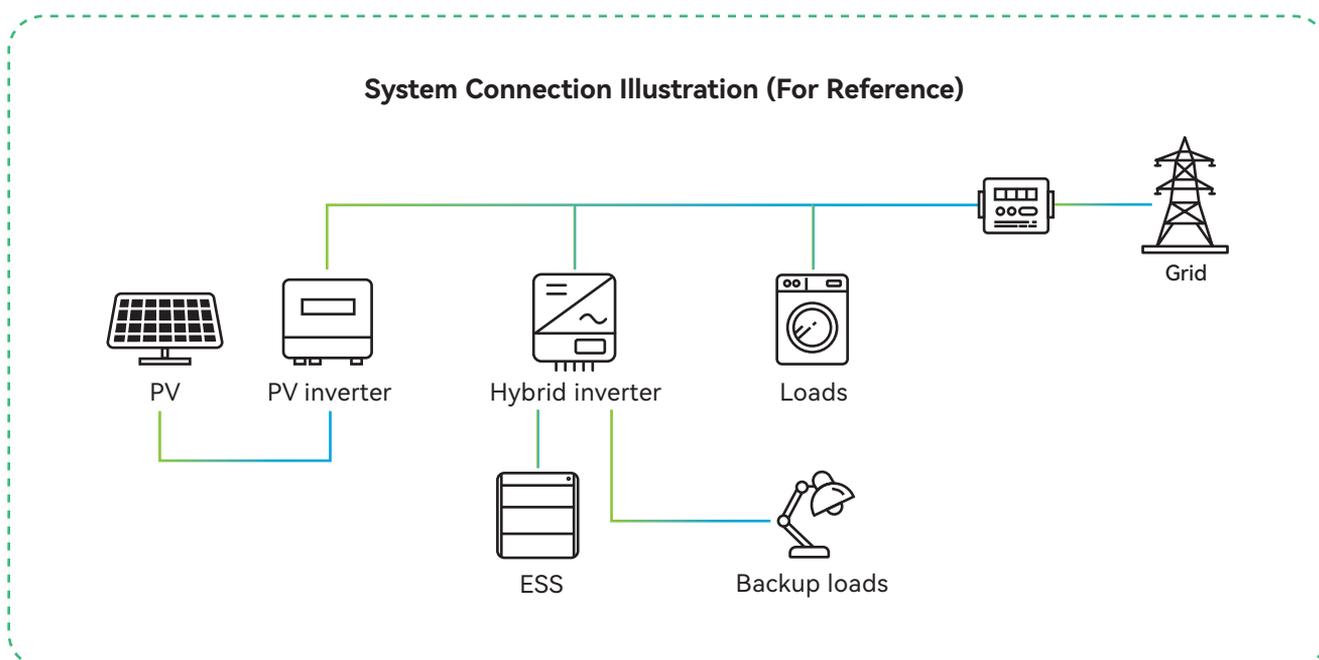
RS485 / CAN Communication  
Compatible with Microinverter Systems



### Safe & Outdoor-Ready

IP65 Protection  
BMS + Breaker-Level Protection

Model	ZT-REES-LV-ST-16k
Battery Type	LFP
Cell Capacity	314 Ah
Capacity	16 kWh
Nominal Voltage	51.2 V
Max. Charge Current	120 A
Max. Discharge Current	120 A
Peak Current	205 A
Communication	RS485 / CAN
Dimensions	700 × 350 × 260mm
Weight	170 kg
Operating Temperature	Charge: 0 to 55 °C Discharge: -20 to 55 °C
Storage Temperature	5 to 35°C
Relative Humidity	5-95%
Max. Operating Altitude	< 3000 m
Cooling Method	Natural Convection
Protection Rating	IP65
Installation Method	Stackable
Cycle Life	≥6000 cycles @ 80% DOD
Expansion	Fast expansion with 2 parallel units Up to 16 units with DC combiner



All specifications are for reference only. Dimensions and weight are approximate and subject to change as product design is finalized.