

# High-Voltage Home ESS(8kWh)

For High-Efficiency DC-Coupled Systems



Model

**Nest-HV-ST-8K**



## High-Voltage Battery System

Higher System Efficiency  
Optimized for DC-Coupled Systems



## Independent BMS

Per-Module SOC Management  
Supports Mixed Battery Use



## High-Density LFP Battery

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



## Scalable Architecture

Up to 6 Modules per String  
Up to 16 Modules Total



## High Output Performance

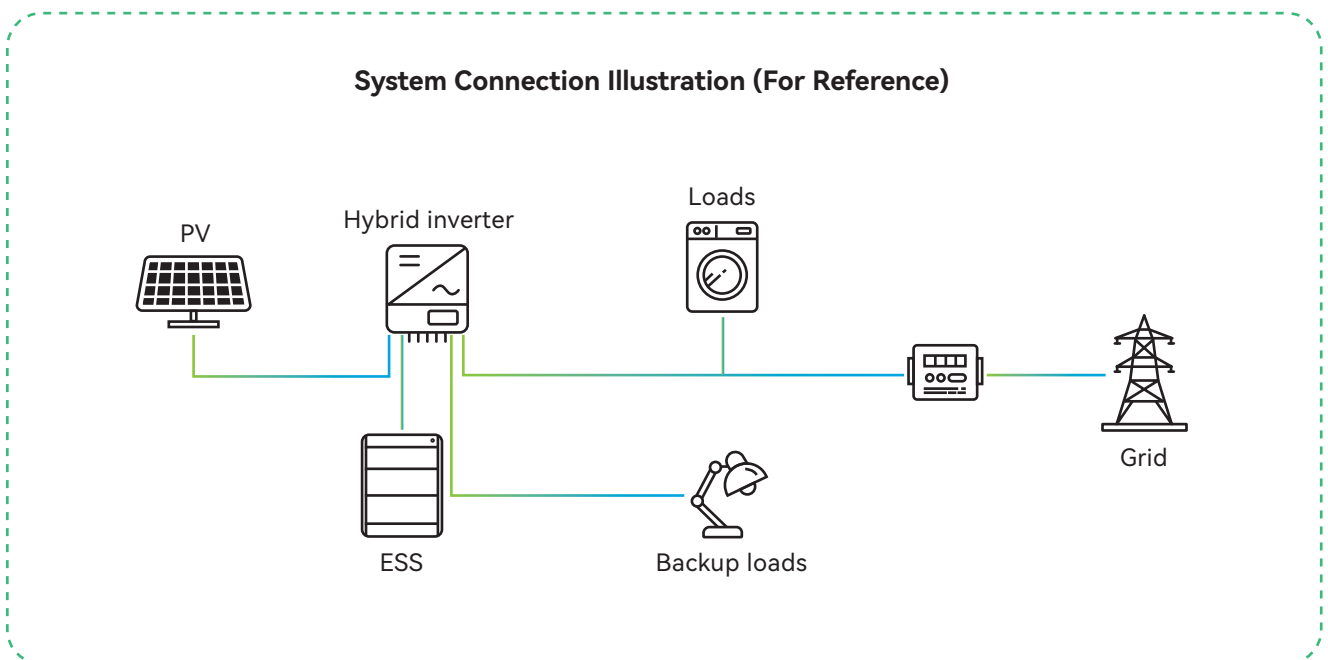
4kW Discharge  
Designed for High Energy Demand



## Clean Wiring Structure

Single Combiner Connection  
Bottom-Side Parallel Wiring

Model	Nest-HV-ST-8K
Battery Type	LFP
Cell Capacity	314 Ah
Capacity	8 kWh
Nominal Voltage	550 V
Max. Charge Current	0.5P
Max. Discharge Current	0.5P
Peak Current	4 kW
Communication	RS485 / CAN
Dimensions	988 × 300 × 278mm
Weight	85 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	Up to 6 modules per string Up to 16 battery modules total



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