

# QBESS-Q

## All-in-One ESS Cabinet

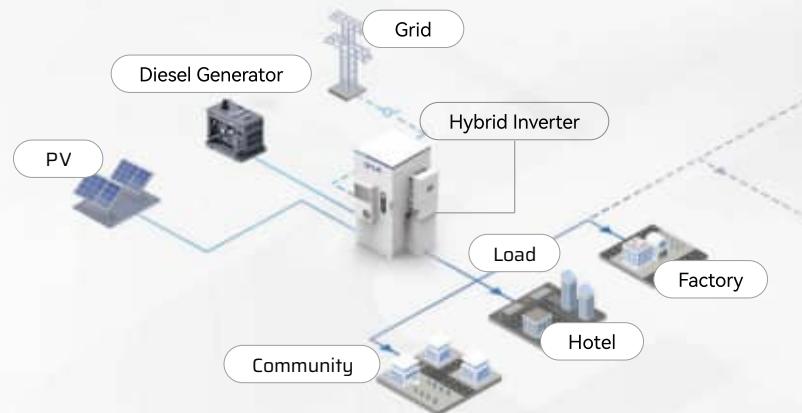
### Seamless On/Off-Grid, One Cabinet Forms a Micro-Grid

- Pure off-grid, Power **10 families** a day

\*At 10 kWh/d/family (estimated)

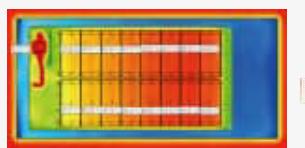
- Adopt the hybrid inverter

Supports access of multi-power sources:  
Diesel generator, PV, Grid...



### Patented Self-Cooling Pack, Lifecycle Maintenance-Free

- Air-fin patent, even heat spread



Thermal simulation diagram of the pack

- Fanless, quieter

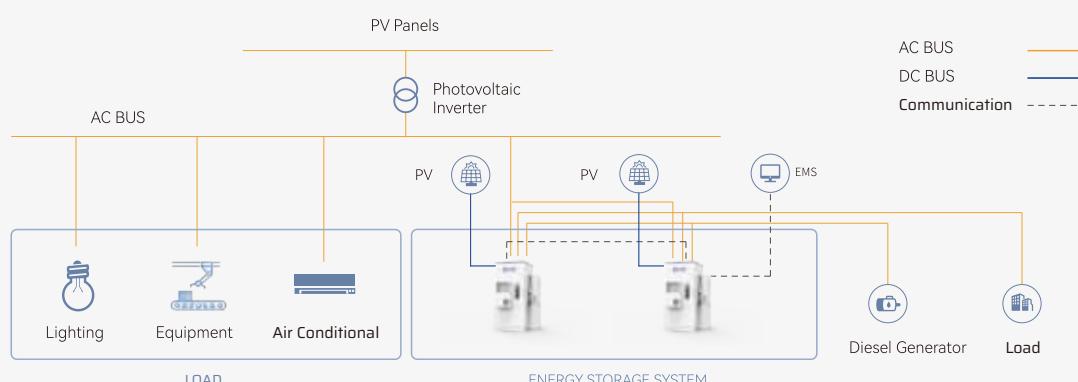


- IP67 Sealed Protection

Fully isolate condensate water, dust, etc.



### Topology



Support **6** AC in Parallel  
  
 Up to **10** Cabinets Expandable

All-in-One

Pre-installation/debugging  
 Ready For Use  
 Easy Install, Flexible Deployment

# Product Specifications

## Commercial and Industrial ESS QBESS-Q



PRODUCT MODEL		QBESS-Q
<strong>BATTERY SPECIFICATIONS</strong>		
Battery Type		LFP
Battery Model		306Ah
Energy Capacity		109kWh
Cycle Life (@25°C, 0.5P)		≥10000
P-rate		≤0.5P
Battery Compartment Ingress Protection		IP67
<strong>COMMUNICATION (ON/OFF-GRID)</strong>		
Rated output power		50kW
Rated Input Voltage (3/N/PE)		380/400Vac
Rated Frequency		50/60Hz
THDi		< 3%
THDu		< 3%
<strong>PV INPUT</strong>		
MPPT Voltage Range		150 ~ 850Vdc
Max. Input Power of PV		96kW
MPPT channels/Strings per MPPT channel		4/2
Max. Input Current		40/40/40/40A
<strong>GENERAL SPECIFICATIONS</strong>		
On/Off-Grid Switching Time		< 20ms
Cooling Method		Air Cooling
Operating Temperature Range		-25 ~ 55 °C (>45°C derating)
Relative Humidity		0 ~ 95% (Non-condensation)
Operating Altitude		≤4000m (>2000m derating)
Ingress Protection		IP54
Dimension (W×D×H)		1270×1340×2094mm
Weight		≈1.8T
Certifications	EN 50549-1, EN 50549-10, VDE-AR-N 4105, NRS 097-2-1, IEC 61000, IEC 62477, IEC 62619, IEC62109, UN 38.3	