

# All-in-One, One-Tap Start

**STAR Q-PLUS**  
**PV-ESS-Diesel Hybrid**

**125kW / 257kWh**  
**125kW / 250kWh**

**10ms** Grid/Off-Grid Switch

**10min** Rapid Maintenance



# STAR Q-PLUS Product Advantages



**125kW**  
Hybrid Inverter

## Multi-Scenario

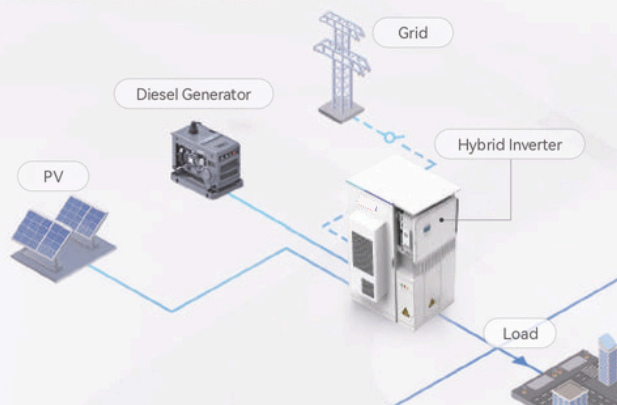
- Self-Use
- Off-Grid
- Emergency Backup



**Solar-Storage-Grid-Diesel All-In-One System**

**100% Off-Grid**

**10ms Seamless Switch**



## 10min Rapid Maintenance Maximum Efficiency

- Independent Distribution Box**  
for Easy Servicing
- Quick-Connect Plugs**  
for Simple Handling
- External Button**  
for One-Tap Start/Stop



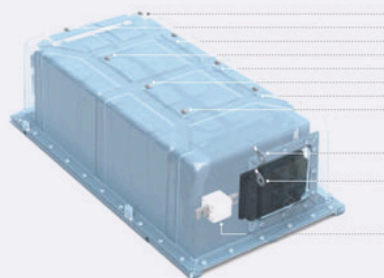
## CATL LFP Battery Cell



**LFP Battery Cell**

Cycle Life  $\geq 10,000$  (306Ah)

## Precise Cell Temperature Control



Battery Temperature Sensors  $\times 8$

Busbar Temperature Sensors  $\times 2$

Fuse  $\times 1$

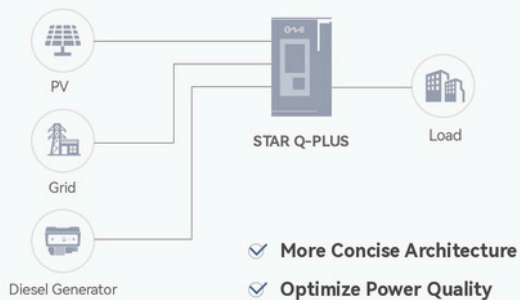


# STAR Q-PLUS Product Advantages

- 257 kWh in Just **2.23m<sup>2</sup>** (314Ah)
- Supports **Back-to-Back** Layout
- Expandable to **12** Battery Cabinets (**3 MWh**)



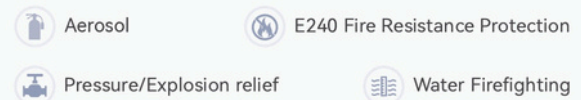
## CNTE PV+Diesel Generator+ESS Solution



## Quadruple Protection



### Fire-fighting Accessories:



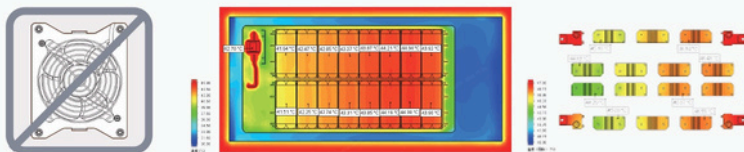
## All-in-One

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

Insulation Detection at Start Up  
Leakage Current Detection in Operation

## Air-Fin Self-Cooling | Lifetime Maintenance-Free

- Air-fin Patent
- Fanless, Quieter



Thermal simulation diagram of the pack

- **IP67** Sealed Protection  
Fully isolate condensate water, dust, etc.



# STAR Q-PLUS Product Specifications



|                                             |                              |            |
|---------------------------------------------|------------------------------|------------|
|                                             | STAR Q-PLUS                  |            |
| Battery Parameters                          |                              |            |
| Cell Type                                   | LFP                          |            |
| Cell Capacity                               | 314 Ah                       | 306 Ah     |
| Nominal Energy                              | 257.2 kWh                    | 250.67 kWh |
| Max. Charge/Discharge Rate                  | 0.5P / 0.5P                  |            |
| Battery Pack IP Level                       | IP67                         |            |
| Cooling Method                              | Air Cooling                  |            |
| AC Parameters                               |                              |            |
| Nominal Power                               | 125 kW                       |            |
| Nominal Grid Voltage                        | 380Vac/400Vac                |            |
| Nominal Grid Frequency                      | 50Hz                         |            |
| PV Input                                    |                              |            |
| MPPT Voltage Range                          | 150 ~ 950Vdc                 |            |
| Max.PV Input Power                          | 250 kW                       |            |
| MPPT Channels/Max. Number of Input Channels | 10/20                        |            |
| Max.PV Input Current                        | 10*42A                       |            |
| System Parameters                           |                              |            |
| Temperature                                 | -25 ~55°C ( > 45°C Derating) |            |
| Humidity                                    | 0-95%, non-condensing        |            |
| Altitude                                    | ≤ 4000m ( > 2000m Derating)  |            |
| IP Level                                    | IP55                         |            |
| Dimensions(W*D*H)                           | 1600*1450*2350mm             |            |
| On-Off Grid Switching Time                  | < 10ms                       |            |