

# Load Side Box Load Products

■ F1001-10HC / F1001-20HC

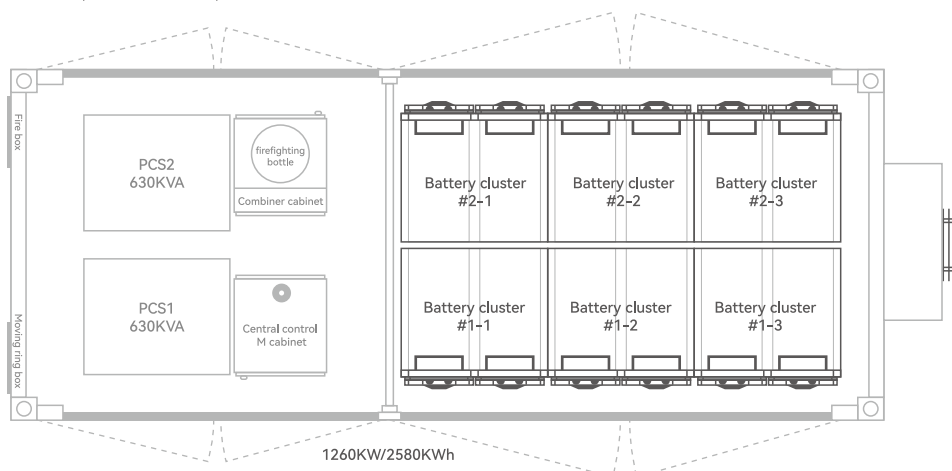


## Product Overview

The box type energy storage product at the load side adopts modular design, integrating power system, BMS system, temperature control system, environmental control system, fire protection system, lighting system and earthing system. There are two specifications, 10HC and 20HC, with a minimum capacity of 1.29MWh per system. Users can flexibly choose according to their actual needs.

## Features

- Intelligent U-POWER power control system;
- High precision battery SOX estimation;
- Intelligent constant temperature design, cold and hot air isolation;
- Quality tracking and analysis throughout the entire lifecycle, Establish early warning capabilities for product lifespan;
- Active balancing scheme;
- Modular design, flexible capacity configuration;
- Pack level detection protection, multi-level gas+water automatic fire protection Fire extinguishing system.



## Specifications



|                                 |                                                                                                               |                  |
|---------------------------------|---------------------------------------------------------------------------------------------------------------|------------------|
| Product model                   | F1001-10HC                                                                                                    | F1001-20HC       |
| Full capacity                   | 1290kWh                                                                                                       | 2580kWh          |
| Configurable capacity           | 1226/1290kWh                                                                                                  | 2451/2580kWh     |
| Cell parameters                 | LFP-3.2V-280Ah-896Wh                                                                                          |                  |
| Module parameters               | LFP-38.4V-560Ah-21.504kWh                                                                                     |                  |
| DC maximum current              | 1200A                                                                                                         | 1200A*2          |
| DC voltage range                | 580~860Vdc                                                                                                    |                  |
| Charge-discharge ratio          | 0.5CP                                                                                                         |                  |
| Cycle life                      | 8000cycles(90%DOD,≥70%EOL)                                                                                    |                  |
| BMS                             | Active balancing + three-level architecture                                                                   |                  |
| Communication interface         | Ethernet/RS-485/CAN                                                                                           |                  |
| Communications Protocol         | Modbus-TCP/IEC61850/104                                                                                       |                  |
| Temperature control scheme      | Intelligent frequency conversion air cooling                                                                  |                  |
| Fire protection scheme          | Gas/smoke/temperature detection+heptafluoropropane+<br>water fire+perfluorohexanone (optional) active exhaust |                  |
| Rated AC voltage                | 400Vac/3W+PE                                                                                                  |                  |
| AC voltage range                | -15%~10%(controllable)                                                                                        |                  |
| Rated AC power                  | 630kW                                                                                                         | 1260kW           |
| Maximum AC current              | 1000A                                                                                                         | 2000A            |
| Maximum output power            | 693kVA                                                                                                        | 1386kVA          |
| Factor                          | 0.99(controllable-1~+1)                                                                                       |                  |
| Rated operating frequency       | 50Hz/60Hz(controllable)                                                                                       |                  |
| Maximum harmonic distortion     | <3%(Rated power)                                                                                              |                  |
| DC component                    | <0.5%                                                                                                         |                  |
| Insulation resistance           | >3MΩ                                                                                                          |                  |
| Altitude                        | ≤5000m(>3000m Degrade)                                                                                        |                  |
| Permissible ambient temperature | -40~+55℃                                                                                                      |                  |
| Permissible relative humidity   | 0~95%Rh(No condensation )                                                                                     |                  |
| Degree of protection            | IP55                                                                                                          |                  |
| Anti-corrosion rating           | C4(C5 option)                                                                                                 |                  |
| Size W*D*H                      | 2991*2438*3296mm                                                                                              | 6058*2438*3296mm |
| Full weight                     | 14T                                                                                                           | 27T              |
| Product certification           | GB/T36276、GB/T34131、GB/T34120、GB/T34133                                                                       |                  |