INFINITE POWER

HT Series

Outdoor Cabinet Energy Storage System

SPECIFICATION

1. Product Introduction

1.1. Model Description

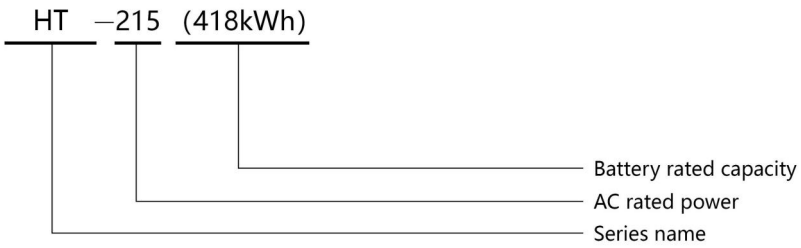


Figure 1-1Model identification

1.2. Product Function

The HT series outdoor energy storage cabinet integrates energy storage batteries, modular PCS, energy management monitoring system, power distribution system, environmental control system, and fire control system. It adopts modular PCS for easy maintenance and expansion. The outdoor cabinet adopts front maintenance to reduce the occupied area and maintenance channel. It has the characteristics of safe and reliable operation, fast deployment, low cost, high energy efficiency, and intelligent management.

The operating strategy of the energy storage system in common application scenarios is as follows:

Peak shaving and valley filling:

- When the time-of-use tariff is at its valley segment: The energy storage cabinet automatically charges, and then remains idle after full charging; When the time-of-use tariff is at its peak segment: The energy storage cabinet automatically discharges, realizing the arbitrage of price difference and improving the economic efficiency of the photovoltaic-energy storage-charging system.

1.3. Electrical Wiring Diagram

Figure 1-2 Electrical Wiring Diagram

Description:

- **The diagram shows the system program with pure grid-connected, different projects with different configurations, lines are slightly different, the actual shipment of the attached map shall prevail.**

1.4. Product Features

- Safe and reliable: brand-level battery cell rigorous screening, integrated and reliable design; IP67 protection level Pack, IP55 protection level cabinet, two layers of safety protection.
- High efficiency and economy: 314Ah high energy density battery cell integration, improve the capacity of a single cabinet, reduce the cost of kWh.
- Highly integrated: the system is productized, integrating liquid-cooled batteries, PCS and power distribution, temperature control and fire protection, flooding door magnets and monitoring and communication, etc., so as to comprehensively control the operation status and risks of the system.
- Intelligent management: supporting local control or cloud platform management system, intelligent equalization strategy, system real-time warning, to ensure the consistency of the whole life cycle of the battery.

1.5. Product Parameters

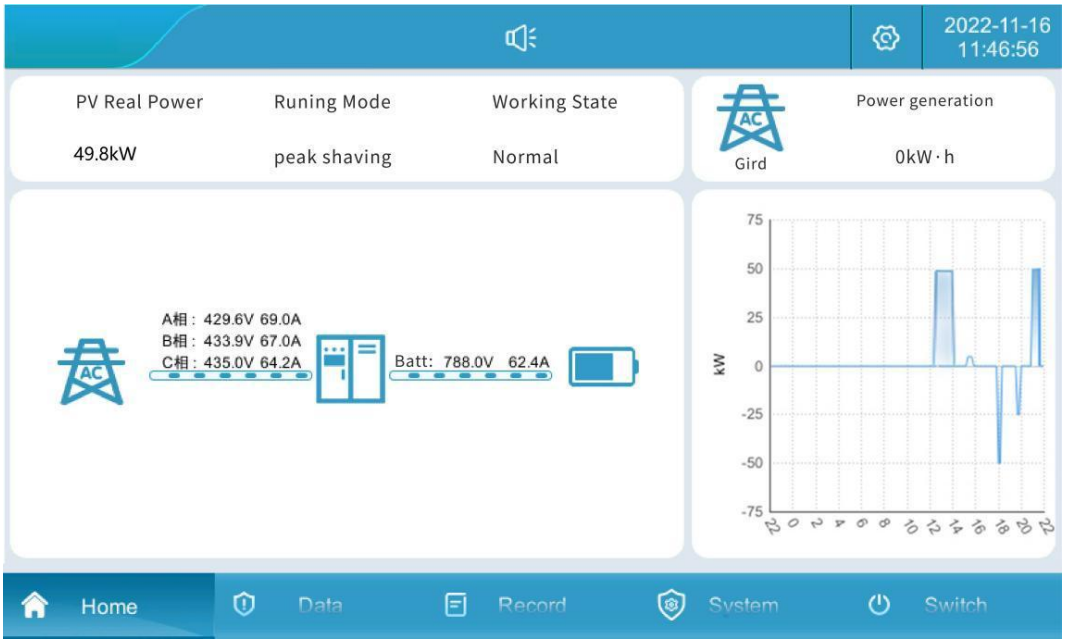
The following are typical configuration parameters of the HT series outdoor cabinet-type photovoltaic-energy storage system. Actual delivery shall be subject to the technical agreement.

Table 1-1 Energy Storage System Parameter Sheet

Model	***HT-215 (418kWh)***
Battery rated capacity	*418kWh*
Battery rated voltage	*1331.2V*
Battery voltage range	*1164.8V~1497.6V*
Battery type	*Lithium iron phosphate battery(LFP)*
Battery cell capacity	*314Ah*
Series of Battery	*1P*52S*8S*
Maximum charge and discharge current	*157A*
Rated AC power	*215kW*
Rated AC current	*180A*
Rated AC voltage	*690V，3W+PE*
Rated AC frequency	*50/60Hz*
THDI	*<3% (Rated power)*
Power Factor	*-1leading to+1 lagging*
THDU	*<3% (Linear Load)*
Degree of protection	*IP55*
Protective Class	*I*
Isolation mode	*No-Isolation*
Shutdown self-discharge	*<0.1%Rated Power (Without transformer)*
Display	*LCD*
Relative humidity	*0 ~ 95% (no condensation)*
Ambient temperature	*-25℃ to +60℃(Derating above 45℃)*
Cooling mode	*Liquid-cooled*
Altitude	*3000m (> 2000m reduction)*
Communication interface	*CAN/Ethernet / 485*
*Size (W * D * H)*	*1600*1350*2300mm*
Weight (approx.)	*3900kg*

1.6. Human-machine Interface Introduction

The home page interface displays real-time power, voltage, current, generated energy, operation mode, working status and other information of the system.



1.7. Appearance Diagram