



INFINITE POWER

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HT Series Outdoor Cabinet Energy Storage System

SPECIFICATION



1. Product Introduction

1.1. Model Description

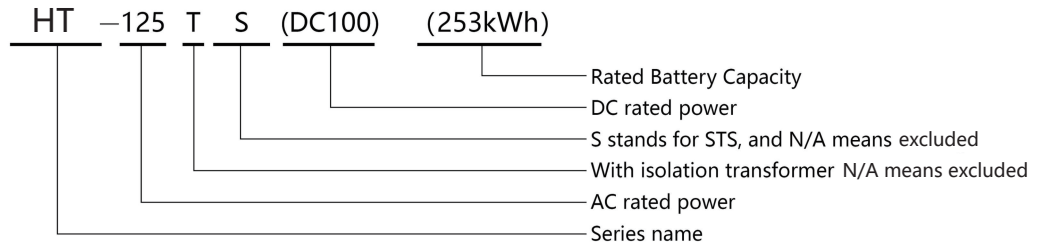


Figure 1-1 Model identification

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.

Photovoltaic-energy storage integration:

- Real-time acquisition of local load power, photovoltaic power generation is given priority for self-consumption and the surplus electricity is stored. If the photovoltaic power generation capacity is insufficient to meet the local load, the stored electricity in the battery is given priority for use.

1.3. Electrical Wiring Diagram

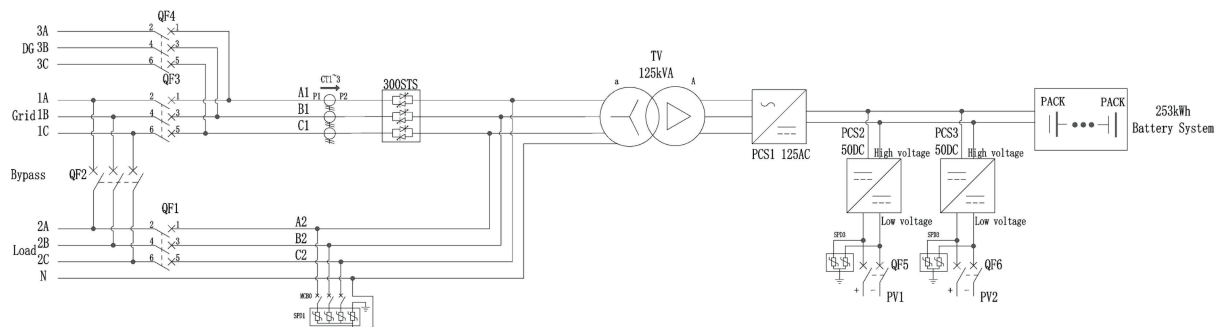


Figure 1-2 Electrical Wiring Diagram



Description:

- The system scheme with on-grid and off-grid capabilities, isolated transformer, and photovoltaic input for self-consumption and the surplus electricity is stored. If the photovoltaic power generation capacity is insufficient to meet the local load, the stored electricity in the battery is given priority for use.

1.4. Product Features

- The system has been commercialized, integrating energy storage batteries, energy storage converters, photovoltaic converters, energy management monitoring systems, power distribution systems, environmental control systems, and fire control systems. It can fully control the operation status and risks of the system.
- Configure rack-mounted modular PCS, supporting multi-machine parallel operation, with good scalability; the number of PCS modules and the total battery capacity can be selected according to the system capacity requirements of scenarios such as microgrids.
- The protection level is IP55, which can perfectly cope with various types of weather in the outdoor environment.

- It adopts door-mounted embedded integrated air conditioning, which does not occupy cabinet space, improves the available space of outdoor cabinets, has better structural integrity at the top, and has good waterproof performance.
- The local control screen can achieve diversified functions such as system operation monitoring, energy management strategy development, equipment remote upgrading, etc.

1.5. Product Parameters

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

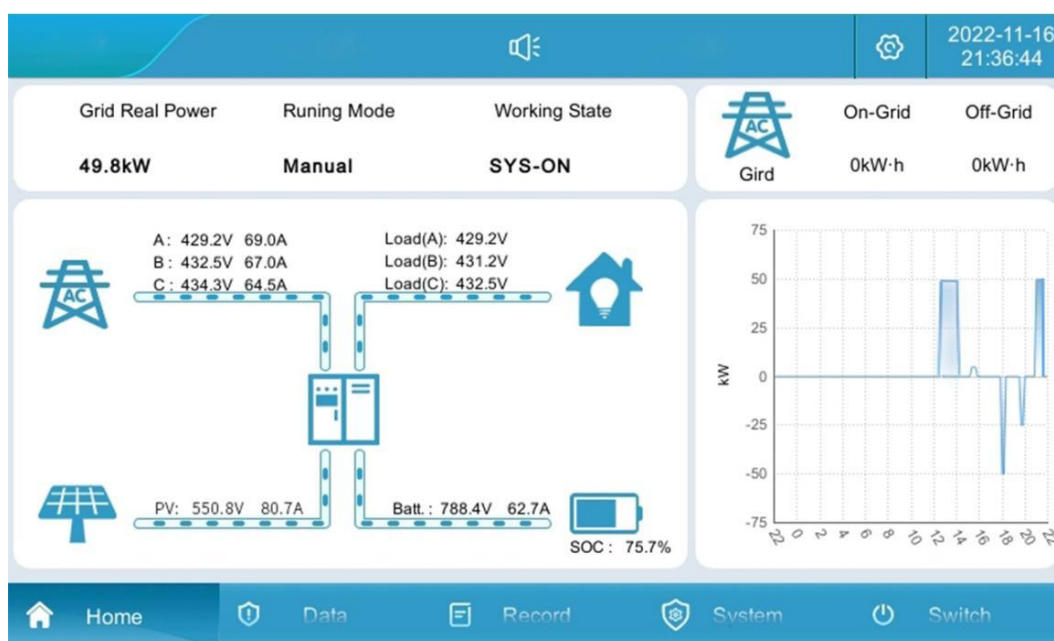
Table 1-1 Energy Storage System Parameter Sheet

Model	HT -125TS(DC100)(253kWh)
Battery Parameters	
Battery rated capacity	253kWh
Battery rated voltage	806.4V
Battery voltage range	705.6V~907.2V
Battery type	LFP
Battery cell capacity	1P*18S*14S
Cell Capacity	314Ah
Max.charging/discharging power	0.5P
Max.charge/discharge current	157A
Photovoltaic Parameters	
Rated power	100kW
PV Voltage Range	312V~600V (Minimum voltage -20V)
PV Max. Current	160A*2
MPPT trackers	2
AC Parameters	
Rated AC power	125kW
Rated AC current	180A
Rated AC voltage	400V, 3W+N+PE
Rated AC frequency	50/60Hz
THDi	< 3 (Rated power)
Power Factor	-1leading to+1 lagging
THDv	<3% (linear load)
General Parameters	
Protection level	IP55
Protection level	I
Isolation mode	Isolation transformer
Shutdown self-discharge	< 0.1% Rated power(Without transformer)

<i>Display</i>	<i>LCD</i>
<i>Relative humidity</i>	<i>0 ~ 95% (No condensation)</i>
<i>Noise</i>	<i>< 78dB</i>
<i>Ambient temperature</i>	<i>-25°C to +60°C(Derating above 45°C)</i>
<i>Cooling mode</i>	<i>Intelligent air-cooled</i>
<i>Altitude</i>	<i>3000m(> 2000m derating)</i>
<i>Communication interface</i>	<i>CAN/Ethernet / 485</i>
<i>Dimension (W * D * H)</i>	<i>1800*1200*2300mm</i>
<i>Weight (approx.)</i>	<i>3560kg</i>

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

