Monet Series

Outdoor Cabinet Energy Storage System

SPECIFICATION

1. Product Introduction

1.1. Model Description

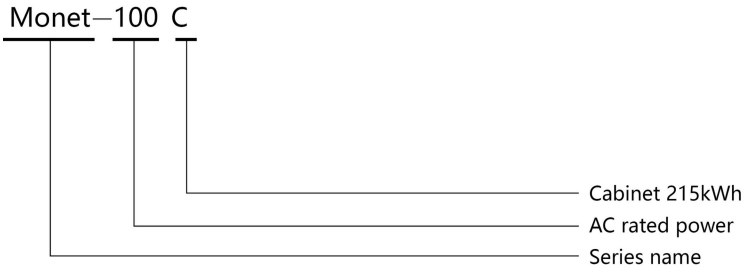

Figure 1-1Model identification

1.2. Product Function

The Monet 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

- 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.
- Real-time acquisition of local load power, photovoltaic power generation priority is self-generation and self-use, and surplus electricity storage; When the power generated by photovoltaic power generation is insufficient to provide local load, the battery storage is prioritized.
- 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	***Monet-100C***
Sub-Model	***100（215kWh)***
Battery rated capacity	*215kWh*
Battery rated voltage	*768V*
Battery voltage range	*672V~864V*
Battery type	*Lithium iron phosphate battery(LFP)*
Battery cell capacity	*280Ah*
Series of Battery	*1P*20S*12S*
Maximum charge and discharge current	*184A*
Rated AC power	*100kW*
Rated AC current	*144A*
Rated AC voltage	*400V，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	*<100W（Without transformer)*
Display	*LCD*
Relative humidity	*0 ~ 95% (no condensation)*
Noise	*<78dB*
Ambient temperature	*-25℃ to +60℃(Derating above 45℃)*
Cooling mode	*Intelligent air-cooled*
Altitude	*3000m (> 3000m reduction)*
Communication interface	*CAN/Ethernet / 485*
*Size (W * D * H)*	*1800*1200*2300mm*
Weight (approx.)	*2400kg*

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