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HE200 Hybrid Inverter

Product Manual

HE200-4200 Hybrid Inverter

The HE200-4200 is a versatile hybrid grid-tied inverter and controller combo (high-frequency unit) that outputs single-phase pure sine wave. It integrates the functionalities of an inverter, a solar charger, and a battery charger, all within a portable form factor. It supports uninterruptible power supply (UPS) switching and features an LCD display that offers user-configurable and easily accessible button operations. It allows for setting battery charging voltage and current, multiple power input and output priority configurations, and adjustable output AC voltage and frequency, making it suitable for various grid environments. Additionally, it supports online data monitoring via a mobile app.

Safe and reliable

Easy to install

Independent maintenance

Excellent heat dissipation



Technical Specifications

HE200-4200 Hybrid Inverter	
Inverter Output	
Model	HE200-4200
Maximum Output Power	3600W
Maximum Output Voltage	240Vac±5% (Single Phase)
Maximum Output Current	15.7A
Maximum Output Frequency	50/60Hz
Output Waveform	Pure Sine Wave
Output Topology	L+N+PE
Maximum Parallel Units	
Battery Type	Lead-acid/Lithium Battery
Rated Battery Voltage	24Vdc
Maximum Hybrid PV Charging Current	100A
Charging Modes	Dual-path/Tri-path/Auto Configuration
MPPT Channels	1
Maximum Input Power	5000W
Maximum Open Circuit Voltage	500Vdc
Maximum Input Short Circuit Current	18A
Input Operating Voltage Range	40~450Vdc
Maximum PV Charging Efficiency	99.5%
Input Voltage Range	90~280Vac
Rated Input Voltage	220Vac
Input Frequency	50/60Hz
Maximum Current	20A
Dimensions	420*298*106
Net Weight	6.46kg
Gross Weight	7.80kg
Protection Rating	IP21
Operating Temperature	-10℃~50℃
Cooling Method	Intelligent Air Cooling
Humidity	5%~95%

HE200-4200 Product Features

- Hybrid grid-tied design, providing AC power in environments without grid access.
- High-frequency design reduces overall weight, offers high power density, high efficiency utilization, and low no-load loss.
- Configurable charging/discharging voltage parameters via buttons, enabling flexible battery capacity settings.
- Adjustable working modes (Grid Priority, PV Priority, PBG Priority).
- Configurable output AC voltage and frequency via buttons, adaptable to different grid environments.
- Online data monitoring via mobile app to track the operating status of the inverter-controller combo.
- Equipped with CAN/RS485 for BMS communication.
- Single AC output.



①AC Indicator Light
②Inverter Indicator Light
③Charging Indicator Light
④ Fault Indicator Light
⑤LED Display Screen
⑥ Exit Button
⑦Page Up/Query Button
⑧Page Down/Query Button
⑨Function Setting/Confirm Button
⑩On/Off Button

⑪ AC Input
⑫ Main Output
⑬ WIFI/GPRS Communication Port
⑭ Dry Contact
⑮ CAN/RS485/BMS Port
⑯ Battery Positive Input
⑰ PV Input
⑱ Battery Negative Input

HE200-6500 Hybrid Inverter

The HE200-6500 is a versatile hybrid grid-tied inverter and controller combo (high-frequency unit) that outputs single-phase pure sine wave. It integrates the functionalities of an inverter, a solar charger, and a battery charger, all within a portable form factor. It supports uninterruptible power supply (UPS) switching and features an LCD display that offers user-configurable and easily accessible button operations. It allows for setting battery charging voltage and current, multiple power input and output priority configurations, and adjustable output AC voltage and frequency, making it suitable for various grid environments. Additionally, it supports online data monitoring via a mobile app.

Safe and reliable

Easy to install

Independent maintenance

Excellent heat dissipation



Technical Specifications

HE200 Hybrid Inverter	
Inverter Output	
Model	HE200-6500
Maximum Output Power	5500W
Maximum Output Voltage	240Vac±5%（单相）
Maximum Output Current	23.9A
Maximum Output Frequency	50/60Hz
Output Waveform	Sine Wave
Output Topology	L1+N1+L2+N2+PE
Battery Type	Lead-acid/Lithium Battery
Rated Battery Voltage	48Vdc
Maximum PV Hybrid Charging Current	80A
Charging Method	Dual-path/Tri-path/Auto Setting
MPPT Channels	1
Maximum Input Power	6000W
Maximum Open Circuit Voltage	500Vdc
Maximum Input Short Circuit Current	20A
Input Open Circuit Voltage Range	120~450Vdc
Maximum PV Charging Efficiency	99.5%
Input Voltage Range	90~280Vac
Rated Input Voltage	220Vac
Input Frequency	50/60Hz
Maximum Current	40A
Dimensions	458*306*114.5
Net Weight	8.40kg
Gross Weight	9.90kg
Protection Level	IP21
Operating Temperature	-10℃~50℃
Cooling Method	智能风冷
Humidity	5%~95%

HE200-6500 Product Features

- Utilizes a hybrid grid design to provide AC power in environments without access to the grid.
- Employs high-frequency design to reduce overall weight, offering high power density, high efficiency utilization, and low no-load loss.
- Allows configuration of charging and discharging voltage parameters via buttons, enabling flexible battery capacity settings.
- Supports configurable working modes (Grid Priority, PV Priority, Battery Priority).
- Enables setting of output AC voltage and frequency via buttons, adapting to various grid environments.
- Provides online data monitoring through a mobile app to track the operating status of the inverter-controller system.
- Equipped with CAN/RS485 for BMS communication.
- Features dual AC output.



① AC Indicator Light
② Inverter Indicator Light
③ Charging Indicator Light
④ Fault Indicator Light
⑤ LED Display Screen
⑥ Exit Button
⑦ Page Up/Query Button
⑧ Page Down/Query Button
⑨ Function Setting/Confirm Button
⑩ On/Off Button

⑪ AC Input
⑫ Main Output
⑬ Secondary Output
⑭ WIFI/GPRS Communication Port
⑮ Debugging Port
⑯ Dry Contact
⑰ CAN/RS485/BMS Port
⑱ PV Input
⑲ Battery Negative Input
⑳ Battery Positive Input

HE200-6500p Hybrid Inverter

The HE200-6500 is a versatile hybrid grid-tied inverter and controller combo (high-frequency unit) that outputs single-phase pure sine wave. It integrates the functionalities of an inverter, a solar charger, and a battery charger, all within a portable form factor. It supports uninterruptible power supply (UPS) switching and features an LCD display that offers user-configurable and easily accessible button operations. It allows for setting battery charging voltage and current, multiple power input and output priority configurations, and adjustable output AC voltage and frequency, making it suitable for various grid environments. Additionally, it supports online data monitoring via a mobile app.

Safe and reliable **Easy to install** **Independent maintenance** **Excellent heat dissipation**



Technical Specifications

HE200 Hybrid Inverter		
Inverter Output		
Model	HE200-6500-P	
Maximum Output Power	49500W（9 units in parallel	49500W（9 units in parallel
Maximum Output Voltage	240Vac±5%（Single Phase）	415Vac±5%（Three Phase）
Maximum Output Current	215A	130A
Maximum Output Frequency	50/60Hz	
Output Waveform	Sine Wave	
Output Topology	L1+N1+L2+N2+PE	
Maximum Parallel Units	9	
Battery Type	Lead-acid/Lithium Battery	
Rated Battery Voltage	48Vdc	
Maximum PV Hybrid Charging Current	80A	
Charging Method	Dual-path/Tri-path/Auto Setting	
MPPT Channels	1 channel per unit, 9 channels for 9 units	
Maximum Input Power	6000W per channel	
Maximum Open Circuit Voltage	500Vdc	
Maximum Input Short Circuit Current	20A	
Input Open Circuit Voltage Range	120~450Vdc	
Maximum PV Charging Efficiency	99.5%	
Input Voltage Range	90~280Vac	
Rated Input Voltage	220Vac	
Input Frequency	50/60Hz	
Maximum Current	40A	
Dimensions	458*306*114.5	
Net Weight	8.40kg	
Gross Weight	9.90kg	
Protection Level	IP21	
Operating Temperature	-10℃~50℃	
Cooling Method	Intelligent Air Cooling	
Humidity	5%~95%	

HE200-6500p Product Features

- Utilizes a hybrid grid design to provide AC power in environments without access to the grid.
- Employs high-frequency design to reduce overall weight, offering high power density, high efficiency utilization, and low no-load loss.
- Allows configuration of charging and discharging voltage parameters via buttons, enabling flexible battery capacity settings.
- Supports configurable working modes (Grid Priority, PV Priority, Battery Priority).
- Enables setting of output AC voltage and frequency via buttons, adapting to various grid environments.
- Provides online data monitoring through a mobile app to track the operating status of the inverter-controller system.
- Equipped with CAN/RS485 for BMS communication.
- Features dual AC output.



① AC Indicator Light
② Inverter Indicator Light
③ Charging Indicator Light
④ Fault Indicator Light
⑤ LED Display Screen
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⑦ Page Up/Query Button
⑧ Page Down/Query Button
⑨ Function Setting/Confirm Button
⑩ On/Off Button

⑪ AC Input
⑫ Main Output
⑬ Secondary Output
⑭ Parallel Communication Interface
⑮ WIFI/GPRS Communication Port
⑯ Debugging Port
⑰ Dry Contact
⑱ CAN/RS485/BMS Port
⑲ PV Input
⑳ Battery Negative Input
㉑ Battery Positive Input

Optional WIFI Remote Control Module

Supports lithium battery communication, external WIFI, and generator auto-start dry contact; enables real-time monitoring and configuration via remote application.



Product Operation Diagram

Delivers high-quality AC power with high efficiency and stable voltage.















Product Applications

Household

Office Equipment

Farm

Warehouse

Night Market Stalls

Industrial Equipmentj