



BATTERY ENERGY & CHARGING SYSTEM

Reliable DC Fast Charging, On-Demand

Battery Energy and Charging System Model

Helix 252K-240: 240 kW Battery Energy Storage System with DC Fast Charger | 150-1000Vdc Output

Standard Features

- Battery-powered DC charging platform
- Highly efficient and stable performance
- Weather-resistant enclosure with IP54 rating
- Built-in safety system with over-voltage, over-current, and over-temperature protection
- All-in-one structure designed for simple installation and scalability
- Integrated load management and energy management system (EMS)
- Wide output voltage range from 150Vdc to 1000Vdc
- Compliant with global charging standards including CCS1 and NACS.



HELIX Typical Use Case

- **Load management** – store energy during low-demand periods to reduce grid strain and lower utility costs during peak hours.
- **Fleet depot charging** – provide high-power charging with integrated storage for auto fleets.
- **Commercial site support** – deliver reliable EV charging for business parks, retail centers, and office campuses.
- **Utility grid resilience** – maintain charging operations during outages or unstable grid conditions.
- **Renewable integration** – pair with solar or wind generation for clean, on-site energy storage and delivery.



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Charging Specifications	
Rated power	240kW
Output voltage range	150-1000Vdc
Output current range	0-300A
HMI	21-inch touch screen
Charging mode	Automatic full, fixed power, fixed amount, fixed time
Payment method	Swipe card payment, QR code payment
Networking method	4G
Networking protocol	OCPP
Charging standard	CCS1 (NACS Optional)
Unit Specifications	
Operating temperature/°F	-4°F to 131°F
Dimensions/in	120.21 in * 54.3 in * 98.43 in
Noise/dB	<70dB
Relative humidity/RH	5%~95%RH, non-condensing
Weight	3.6t



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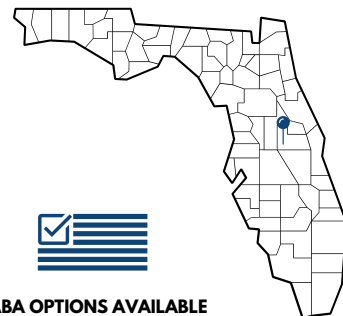
Battery Specifications	
Product NO.	252K-240
Battery charging power	125kW
Battery output current	304A
Charging voltage	208 3-Phase
Nominal capacity	252kWh
Charging rate	<1C
Discharging rate	<1C
Battery voltage range	728~949V
Depth of discharge	<90%DOD
Cycles	>4000
Cell type	3.2V/304Ah(LFP)
Pack voltage	166.4V
Rated voltage	832V
Rated frequency	50/60Hz
Cooling method	Liquid cooling
IP level	IP54



Get in Touch

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BABA OPTIONS AVAILABLE

