



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



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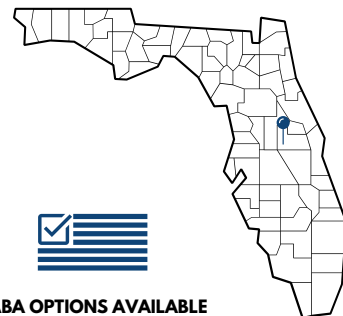
Battery Specifications	
Product NO.	252K-240
Battery charging power	125kW
Battery output current	304A
Charging voltage	208 3-Phase
Nominal capacity	252kWh
Charging rate	<1C
Discharging rate	<1C
Battery voltage range	728~949V
Depth of discharge	<90%DOD
Cycles	>4000
Cell type	3.2V/304Ah(LFP)
Pack voltage	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

