

60-320kW Integrated Bidirectional DC/DC Charging Station

Product Description

The YLNXG series integrated bidirectional DC/DC charging system offers flexible power options ranging from 60kW to 320kW, equipped with 20kW isolated bidirectional DC/DC modules. Combining exceptional energy conversion efficiency and outstanding reliability, it performs particularly well in scenarios such as integrated PV-storage-charging systems and DC micro-grids. Its efficient and stable performance not only significantly reduces operational costs but also comprehensively enhances energy utilization rates. With powerful expansion capabilities and intelligent management, it provides users with a one-stop, high-quality charging experience.

Intelligent Charging Mode

- Supports intelligent recognition function for single-cable independent charging and dual-cable simultaneous charging
- Enables dual-cable simultaneous charging across different charging stations, allowing four cables from two stations to charge simultaneously

Diverse Initiation Methods

- Offers convenient initiation methods such as scanning a QR code via APP, using a VIN code, swiping a card, and entering a password

High Efficiency Performance

- Peak efficiency reaches up to 97%, with the system automatically optimizing efficiency strategies
- Employing a DC bus input design to reduce energy loss compared with AC-DC conversion
- Precisely speed-controlled fan design ensures full-load operation in high-temperature environments
- High-frequency isolation enables bidirectional energy flow between the DC bus side and the DC load side

Universal Compatibility

- Bidirectional charging and discharging voltage range spans from 200~950VDC, compatible with various DC bus voltage platforms.
- Power range covers 60~320kW, accommodating the connection needs of different types of vehicles and energy storage systems.

Intelligent Management

- Supports remote fault diagnosis and OTA (Over-The-Air) updates, enabling more efficient operations.
- Compatible with mainstream platforms, having integrated with over 100 platforms, supporting one-click switching

Safety and Reliability

- Comprehensive charging logs are recorded, with multi-zone sampling ensuring the safe operation of the system.



Application Scenarios

- Commercial Complexes
- Energy Storage and DC Micro-grid Systems
- Residential Buildings and Communities
- Smart Cities and Transportation Sectors
- Charging Stations in Highway Service Areas

Item	Parameters						
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Basic index

Model	YLNXG60K02D	YLNXG80K02D	YLNXG120K02D	YLNXG160K02D	YLNXG180K02D	YLNXG240K02D	YLNXG320K02D
Rated power(kW)	60	80	1200	160	180	240	320
Max number of plug	2						
Cooling method	Fan cooling						
HMI	7-inch color touch screen						
Back-end communication	Ethernet/4G						
Start-up method	RFID/VIN/Credit Card/Scan QR code/Manually(optional)						
Dimensions (WxDxH)	750x460x1600	750x460x1600	750x460x1650		750x580x1750	750x550x1900	800x700x1900
Weigh (KG)	190	200	240	260	310	360	440

DC Side

Voltage	750VDC(200~950VDC)						
Rated Charge/Discharge current	83A	110A	165A	220A	248A	330A	440A
Voltage stabilized accuracy	≤±0.5%						
Current stabilized accuracy	≤±1% (output load in 20%~100%)						
Peak-peak ripple	≤1%						
ITHD	≤±5%						
Max efficiency	≥97%						

Load Side

Voltage	200~950VDC						
Charge/Discharge current range	0~150A	0~200A	0~300A	0~400A	0~450A	0~600A	0~800A
Max current for single plug	150A	200A	250A				
Max power of single plug	60kW	80kW	120kW	160kW	180kW	240kW	250kW
Voltage stabilized accuracy	≤±0.5%						
Current stabilized accuracy	≤±1% (output load in 20%~100%)						
Peak-peak ripple	≤1%						
ITHD	≤±5%						
Max efficiency	≥97%						

Environment

Operating temperature	-20 ~ +50°C
Storage temperature	-40 ~ +75°C
Operating environment	Indoor or outdoor (IP54)
Humidity	5~95%RH,non-condensing
Altitude	2000m no derating required;>2000m,the working temperature decreases by 1°C for every 100m rise