

80-400kW Integrated Unidirectional DC/DC Charging Station

Product Description

The YLNXD series of integrated unidirectional DC/DC EV charging station systems offers power coverage ranging from 80kW to 400kW, equipped with 40kW isolated unidirectional DC/DC charging modules. These systems boast efficient energy conversion capabilities and reliability. They can significantly reduce operational costs, enhance overall energy utilization efficiency, and excel in application scenarios such as integrated photovoltaic-energy storage-charging systems and DC micro-grids. With their superior conversion efficiency, stable performance, and flexible scalability, these systems provide users with high-quality charging services.

Intelligent Charging Mode

- Supports intelligent recognition for single-cable independent charging and dual-cable simultaneous charging
- Supports dual-cable simultaneous charging and cross-station simultaneous charging, allowing up to four cables across two stations to charge simultaneously

Convenient starting methods

- Offering various convenient starting methods such as scanning with an APP, VIN code, card swiping, and password entry

High-efficiency performance

- Peak efficiency reaches up to 97%, with intelligent system optimization for efficiency strategies
- Incorporates DC bus input design to reduce energy loss compared with AC-to-DC conversion
- Fans with precise speed regulation ensure stable full-load operation in high-temperature environments

Universal compatibility

- Output range covering DC voltages from 200V to 1000V
- Power range spanning from 80kW to 400kW, compatible with various types of electric vehicles for charging

Intelligent Management and Upgrades

- Supports remote fault diagnosis and OTA upgrades, enhancing maintenance efficiency
- Compatible with mainstream platforms, already integrated with over 100 platforms, allowing for one-click switching

Safety and Reliability

- Comprehensive recording of charging logs
- Multi-area data sampling to ensure safe system operation



Application Scenarios

- Urban Bus Stations
- Charging Centers in Logistics Parks
- Charging Stations in Highway Service Areas
- Renewable Energy Charging Stations in Large Parking Lots
- DC Power Supply Systems in Industrial Parks
- DC Micro-grids in Data Centers
- Renewable Energy Micro-grids in Rural Areas

Item		Parameters				
Basic index						
Model	YLNXD80K02D	YLNXD120K02D	YLNXD160K02D	YLNXD240K02D	YLNXD320K02D	YLNXD400K02D
Rated power(kW)	80	120	160	240	320	400
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	750x460x1650		750x580x1750	750x550x1900	800x700x1900
Weigh (KG)	200	240	260	340	390	490
Input						
Voltage	750VDC(200~850VDC)					
Rated current	110A	165A	220A	330A	440A	550A
Output						
Ouput voltage	200Vdc~1000VDC					
Constant power range	300Vdc~1000VDC					
Max current for single plug	250A					
Max power of single plug	80kW	120kW	160kW	240kW	250kW	250kW
Max efficiency	≥97%					
Output voltage error	≤±0.5%					
Output current error	≤±1%					
Voltage stabilized accuracy	≤±0.5%					
Current stabilized accuracy	≤±1%					
Peak-peak ripple	≤±1%					
ITHD	≤3%					
Environment						
Operating temperature	-20 ~ +50℃					
Storage temperature	-40 ~ +75℃					
Operating environment	Indoor or outdoor (IP54)					
Humidity	5~95%RH,non-condensing					
Altitude	2000m no derating required;>2000m,the working temperature decreases by 1℃ for every 100m rise					