22-200kW V2G Charger

Product Description

The YLNXG series V2G charging station uses 22kW bidirectional charging/discharging modules. It enables two - way energy flow between vehicles and the grid. Electric vehicles can act as energy storage devices for grid peak - shaving and load - balancing. With intelligent scheduling from the superior platform, it achieves orderly charging and discharging, helping with renewable energy consumption and storage management. This offers customers better electricity usage plans and eco - friendly energy solutions.

Bidirectional Energy Flow and High-Frequency Isolation
- AC-DC bidirectional energy flow, supporting energy interaction between electric vehicles and the power grid
- Utilizing high-frequency isolation technology to ensure efficiency and safety during charging and discharging processes

Grid Peak Shaving and Load Mitigation
- Participating in grid peak shaving to help balance supply and demand
- Effectively mitigating grid load fluctuations to enhance grid stability

Efficiency and Wide Voltage Adaptability
- Peak efficiency of ≥95%, enhancing overall charging efficiency
- Wide constant power voltage range, compatible with mainstream new energy vehicle voltage platforms

Data Recording and Security Assurance
- Providing comprehensive recording functions for charging and discharging logs and battery data
- Ensuring the safe operation of the system and enhancing the confidence of equipment and user utilization

Remote Management and Intelligent Upgrades
- Supporting remote fault diagnosis to reduce maintenance time and costs
- Equipped with OTA upgrade functionality for controllers, allowing for timely updates and system optimization

Compatibility and Platform Integration
- Supporting V2G charging and discharging protocols for mainstream vehicles to ensure market compatibility
- Meeting the integration needs of mainstream grid platforms for convenient integration and management

Application Scenarios

- Distributed Energy Storage
- Household Energy Storage and DC Micro-grid Systems
- Residential Areas and Communities
- Smart Cities and Transportation Sectors
- Charging Stations at Highway Service Areas

Item	Parameters					
Basic						
Model	YLNXG22K01	YLNXG60K02	YLNXG80K02	YLNXG120K02	YLNXG160K02	YLNXG200K02
Rated power(kW)	22	60	80	120	160	200
Max number of plug	1	2	2	2	2	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)	500x260x700 (pedestal exluded)	750x460x1650		750x580x1750	750x550x1900	800x700x1900
Weigh (KG)	100	220	240	320	360	430
AC Side(Rectification and On-Grid Mode)						
Input configuration	3P+N+PE					
Rated charge/discharge power	22kW	60kW	80kW	120kW	160kW	200kW
Rated voltage	380Vac±15					
Rated current	35A	96A	128A	193A	257A	321A
Grid frequency	45Hz～65Hz					
Power factor (rectification)	⩾0.97@20%～50% ⩾0.99@50%～100%					
THD	⩽5%					
DC Side						
Voltage	200Vdc～1000Vdc					
Constant power range	300Vdc～1000Vdc					
Current	0~73.5A	0~200A	0~267A	0~400A	0~533A	0~667A
Rated current	22A@1000Vdc	60A@1000Vdc	80A@1000Vdc	120A@1000Vdc	160A@1000Vdc	200A@1000Vdc
Max current for single plug	73.5A	200A	250A			
Max power of single plug	22kW	60kW	80kW	120kW	160kW	200kW
Max efficiency	⩾97%					
Voltage stabilized accuracy	＜±0.5%					
Current stabilized accuracy	⩽±1% (output load in 20%～100%)					
Environmental Conditions						
Operating temperature	-20°C~＋50°C, above 50°C derating required.					
Storage temperature	-40°C~＋75°C					
Application	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					