

NENGHUI

NH-ICS180-261

ESS Charger

Max EV Charging Power: 180kW

ESS: 261kWh

Nenghui ESS-Charger integrated charging and storage solution combines DC fast charging with a built-in 261 kWh battery. It enables peak shaving and load shifting to reduce grid impact and enhances operational flexibility. It delivers efficient and reliable fast charging (1*180kw or 2*90kw) while maintaining compatibility with multiple global charging standards. An intelligent operation platform supports OCPP integration, real-time load balancing, and remote monitoring, ensuring optimized asset utilization and seamless coordination with the overall power system.



Flexible Extension

Modular design which is easy to extend parallel.



Compact Design

Highly integrated design with EV Charger and battery storage is ideal for areas with limited space.



High Power Output

Support maximum 180kW EV charging power with 60kW input.



Plug and Play

Fast to install and easy to operate. Access hole, wiring entrance and rail-mounted components for most effective installation and maintenance.



Ultimate Safety

Early warning with AI algorithm. Redundant cabinet and pack-level fire suppression system with aerosol.



Future Smart Charging Network

Compatible with full smart functions under OCPP 1.6J. Authorization for use on a mobile application or a cloud platform to monitor the charger operation remotely.

Technical Specification

AC Input	
Input Voltage Range	400Vac/3P+N+PE
Rate Input Current	200A
Max Input Power	125kW
Efficiency	≥95%
DC Output (Charger)	
Output Voltage Range	300–1000Vdc
Max Output Current (system)	600A
Output Current (connector)	400A
Max Output Power	180kW
Number of Outputs	2
Connector Type	CCS2, CCS1,GBT,CHAdeMO, NACS
Voltage Accuracy	±0.5%
Current Accuracy	±1%
Battery Storage	
Cell Type	LFP314Ah
PACK	52.25kWh/1P52S
Battery System	261.25kWh/1P260S
Rated Voltage	832Vdc
Voltage Range	728–936Vdc
Charge/Discharge Rate	0.5P
DoD	95% (25±2°C)
SOC Accuracy	3%
Cycle Life	8,000 times
User Interface	
Display	10.1" Touch Screen
User Authentication	RFID, QR code, App, POS card
Support Language	English (Other languages available upon request)
General Data	
Ingress Rating	IP55
Operating Temperature	-25°C~55°C
Humidity	5~95%RH, non-condensing
Noise	≤75dB
Altitude	≤2,000m (derating above 2,000m)
Fire Suppression System	Aerosol
Communication Protocol	OCPP 1.6J
Network Connection	Ethernet, WIFI, 4G
Dimensions (W*D*H)	2400mm*1300mm*2200 mm
Weight	about 3.7t
Compliance	IEC61851-1,IEC61851-21-2,IEC61851-23,IEC61851-24,IEC 62619-1,IEC 62619-3,CE,CB, MSDS,UN38.3