

Integrated Energy Storage EV Charger



Integrated Energy Storage EV Charger is a cutting-edge, integrated charging solution designed for high-efficiency, ultra-fast electric vehicle (EV) charging. Powered by CATL's lithium iron phosphate (LFP) batteries, it combines long life, exceptional safety, and high performance with the flexibility to operate without infrastructure upgrades. This innovative charger supports charging power of 270 kW from a single connector, with just 80 kW input power, offering unparalleled convenience for various EV charging needs.

01 Key Specifications

- ☑ **Charging Power:** 270 kW (output), supports up to 80 km range in 3 minutes.
- ☑ **Input Power:** 80 kW, eliminating the need for transformer upgrades.
- ☑ **Charging Voltage Range:** 200V to 1000V DC
- ☑ **Energy Storage:** Integrated with CATL's high-power LFP batteries.

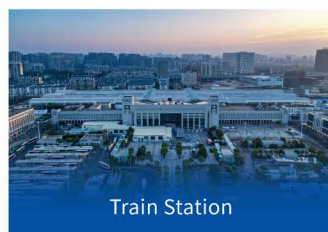
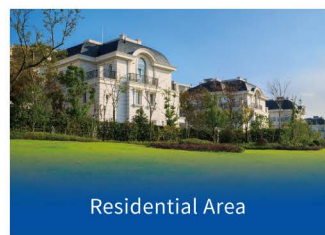
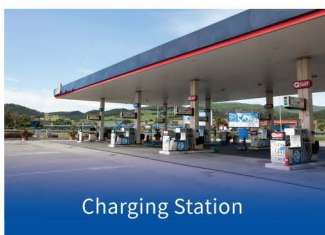
02 Key Features

- ☑ **Extreme Safety:** LFP batteries eliminate the risk of thermal runaway. Comprehensive lifecycle insulation monitoring ensures operational security.
- ☑ **Flexible Deployment:** Operates with an 80-kW input, avoiding complex permitting and infrastructure upgrades. Compact design enables easy installation across diverse locations.
- ☑ **Vehicle-to-Grid (V2G) Functionality:** Supports bidirectional power flow, enhancing grid stability and providing economic benefits.
- ☑ **Energy-to-Grid (E2G) Capability:** Enables direct contribution of stored energy to the grid, boosting ROI for operators.
- ☑ **Battery Health Inspection:** Conducts real-time battery testing during charging. Generates detailed health reports using the NE Battery AI Model for predictive maintenance.
- ☑ **Cost Efficiency:** Integrated visualization tools lower operational costs.
- ☑ **Liquid-Cooling System:** Ensures durability, low noise, and high reliability, even in demanding environments.

03 Application Scenario

The Integrated Energy Storage EV Charger is suited for a variety of fast DC charging applications, including:

- ☑ **Charging Stations:** Large, medium, and small-scale EV stations.
- ☑ **Highway Rest Areas:** Convenient charging for long-distance travelers.
- ☑ **Urban Parking Spaces:** Ideal for shopping malls, residential areas, and office buildings.
- ☑ **Transportation Hubs:** Docks, train stations, and transit hubs.



04 Technical specification

Input

Input power supply	3W+N+PE
Rated input voltage	400±10%V AC
Rated input power	80kW
Rated input current	150A
Rated AC frequency	50/60Hz

Output

Max output charging power	One vehicle connected: 270kW maximum Two vehicle connected: 135kW each maximum
Charging voltage range	200V~1000V DC
Charging current	300A (400A for short-time)
No. of charge connectors	2
Exposed charging cable length	5m

Basic characteristics

Dimension (W*D*H)	1580mm*1300mm*2000mm(Excluding cable puller)
Weight	≤2500kg (subject to actual item)
Product life cycle	≥10 years
Communication protocol	OCPP
Energy storage capacity	189kWh
Noise	≤55dB @25°C
Integrated cabinet IP rating	IP55
Storage ambient temperature	-30°C~60°C
Working ambient temperature	-25°C~50°C
Cooling method	Liquid-cooling
Payment methods accepted	Credit card/RFID card/WeChat/Alipay

The compliance criteria are as follows

Safety & Compliance	CE & IEC
---------------------	----------

Integrated Energy Storage EV Charger redefines the EV charging experience, offering a sustainable, efficient, and scalable solution to meet the growing demands of modern mobility.