

Empowering Your Business with

Z-Series EV Charger



POWERING CONNECTIONS



Smart EV Charging Infrastructure for Scalable Deployment

- ✓ **High-Power, Fixed EV Charging Infrastructure:** Design, supply, and installation of Mactek Z-Series DC Fast Chargers, providing robust and scalable charging infrastructure solutions for commercial fleets, public charging networks, highway rest stops, and large-scale industrial facilities, supporting power outputs from 50kW to 350kW+.
- ✓ **Scalable Solutions for Commercial and Public Use:** Modular and expandable charging stations designed to accommodate future growth in EV adoption, offering flexible configurations with multiple charging points and dynamic power sharing capabilities to optimize energy distribution across connected vehicles.
- ✓ **Advanced Load Management and Grid Integration:** Implementation of intelligent load management systems to prevent grid overload, optimize energy costs through peak shaving and demand response, and enable seamless integration with local grid infrastructure and renewable energy sources via smart grid communication protocols.
- ✓ **Comprehensive Installation and Maintenance Support:** Provision of full turnkey services including site assessment, electrical infrastructure upgrades, installation, commissioning, network integration, and ongoing preventive and corrective maintenance to ensure maximum uptime and operational efficiency of the charging network.

Technical Specifications

Features

Specifications

✓ Charger Type	✓ DC Fast Charger (Fixed, or Cabinet Type)
✓ Power Output	✓ 50kW, 100kW, 150kW, 200kW, (Configurable)
✓ Connector Type	✓ CCS1 (SAE J1772 Combo), CCS2 (IEC 62196-3), CHAdeMO, Type 2 AC (Optional)
✓ Input Voltage	✓ 400V AC / 480V AC, 3-phase, 50/60 Hz
✓ Efficiency	✓ > 95% (DC/DC conversion)
✓ Power Factor	✓ > 0.99
✓ Network Protocol	✓ OCPP 1.6J (JSON), OCPP 2.0.1
✓ User Interface	✓ 10-inch+ Touchscreen Display, RFID Reader, Mobile App Integration
✓ Payment Options	✓ Credit Card Terminal, RFID Card, Mobile App (QR Code), Plug & Charge (ISO 15118)
✓ Safety Features	✓ Overcurrent, Overvoltage, Undervoltage, Short-Circuit, Ground Fault, Temperature, Protection, Emergency Stop
✓ Enclosure	✓ IP54/IP55 rated, IK10 vandal-resistant, UV-resistant coating
✓ Cooling	✓ Forced Air Cooling or Liquid Cooling
✓ Applications	✓ Public Charging Stations, Highway Rest Stops, Commercial Fleets, Workplace Charging, Retail Centers
✓ Compliance	✓ IEC 61851, IEC 62196, UL 2202, CE, FCC, Local Grid Codes
✓ Battery Chemistry	✓ High-density Lithium-ion (e.g., NMC, LFP) with advanced thermal management, 100kH

Why Choose Us?

- 01. Future-Proof, High-Performance Charging:** Our Z-Series EV Chargers deliver ultra-fast, reliable DC charging, designed to meet the escalating demands of next generation electric vehicles and scale effortlessly to support growing commercial and public charging networks.
- 02. Intelligent Energy Optimization:** With advanced load management and smart grid integration capabilities, our solutions optimize power distribution, minimize operational costs through peak shaving, and ensure efficient, sustainable charging operations for your entire fleet or public network.
- 03. Robust Reliability and Turnkey Support:** Built for continuous, heavy-duty operation in diverse environments, the Z-Series offers unparalleled durability, backed by comprehensive installation, commissioning, and maintenance services, guaranteeing maximum uptime and peace of mind.

GET IN TOUCH WITH US

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