

Global Leader in Innovative
Energy Solutions



ZD ENERGY

Product Catalog 2026

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Contents

AC Charger

Guardian	7-8
Guardian Pro	9-10
KingKong	11-12
Explorer	13-14
Explorer 2 Flex	15-16
Explorer 2 Pro	17-18
Explorer 2	19-20
Mini Z	21-22
Traveler	23-24
Traveler Lite	25-26
Charging Cable	27
Adaptor	28

DC Charger

DC S-LINE	31-34
DC J-LINE	35-44
DC Z-LINE	45-46

Charging Robot

FA400A	49-50
FA400B	51-52
FA400C	53-54
FS200B	55-56
FS200C	57-58
FS200D	59-60
MA400G	61-62
MA400GB	63-64

About Us

Founded in 2010 and headquartered in Shanghai, ZHIDA TECH (ZD Energy) has grown to become the world's leading manufacturer of smart charging systems. As of September 2025, ZHIDA TECH (ZD Energy) has shipped over 2 million chargers to numerous regions across the globe, including Southeast Asia, Latin America, North America, the Middle East, and Europe.

ZHIDA TECH (ZD Energy) holds the highest market share in EV home charging globally and is partnered with 80% of global automotive OEMs - totalling over 70 car brands. ZHIDA TECH (ZD Energy) is committed to empowering the world's transition to electric mobility and green energy by specialising in intelligent charging & home energy solutions, which enable seamless communications between vehicle, home, grid, and charger.

The company is now strengthening its global presence by delivering products and services worldwide and establishing operational sites across Shanghai, Singapore, Hong Kong, Thailand, Qatar, Saudi Arabia, Germany, and Indonesia.



Our AC Products



Guardian



Guardian Pro



Explorer



Explorer 2 Flex



Explorer 2 Pro



Explorer 2



Traveller



Traveller Lite



King Kong



Mini Z

Guardian 7kW

Features

- > Type 2, GB/T EV Charger
- > Single Phase with 7kW AC Charging
- > IP55 Rated for Indoor/Outdoor Applications
- > Optional Wireless Connection with RFID/BT/Wifi/4G Functions
- > Optional Wall-Mounted Installation or Pedestal Installation for Different Installation Demands
- > Compact Design for Easy Carry and Installation
- > Multiple Protections for Safe Use

PROTECTIONS

- > Undervoltage/Overvoltage Protection
- > Overcurrent Protection
- > Overheat Protection
- > Short-Circuit Protection
- > Leakage Protection
- > Lightning Protection
- > Emergency Stop Protection

CERTIFICATIONS



SPECIFICATIONS

Rated Input AC Voltage:	AC165~265V
Operating Frequency:	47~63Hz
Rated AC Operating Current:	32A 7kW
IP Rating:	IP55
Operating Altitude:	≤3000m
Operating Humidity:	5%~95%, Non-Condensing
Operating Temperature:	-40°C to +55°C
Storage Temperature:	-40°C to +85°C
Connector Mechanical Operating Life:	≥10000 uses
Product Size:	310mm*214mm*90mm





Guardian Pro 7kW

Features

- > Type 2, GB/T EV Charger
- > Single Phase with 7kW AC Charging
- > IP55 Rated for Indoor/Outdoor Applications
- > Optional Wireless Connection with RFID/BT/Wifi/4G Functions
- > Optional Wall-Mounted Installation or Pedestal Installation for Different Installation Demands
- > Compact Design for Easy Carry and Installation
- > Multiple Protections for Safe Use

PROTECTIONS

- > Undervoltage/Overvoltage Protection
- > Overcurrent Protection
- > Overheat Protection
- > Short-Circuit Protection
- > Leakage Protection
- > Lightning Protection
- > Emergency Stop Protection

CERTIFICATIONS



SPECIFICATIONS

Rated Input AC Voltage:	AC165~265V
Operating Frequency:	47~63Hz
Rated AC Operating Current:	32A 7kW
Ip Rating:	IP55
Operating Altitude:	≤3000m
Operating Humidity:	5%~95%, Non-Condensing
Operating Temperature:	-30°C to +55°C
Storage Temperature:	-40°C to +85°C
Connector Mechanical Operating Life:	≥10000 uses
Product Size:	310mm*214mm*90mm



KingKong 7kW

Features

- > Type1, Type 2, GB/T EV Charger
- > Single Phase with 7kW AC Charging
- > IP66 Rated for Indoor/Outdoor Applications
- > Optional Wireless Connection with RFID/BT/Wifi/4G Functions
- > Optional Wall-Mounted Installation or Pedestal Installation for Different Installation Demands
- > Compact Design for Easy Carry and Installation
- > Multiple Protections for Safe Use

PROTECTIONS

- > Undervoltage/Overvoltage Protection
- > Overcurrent Protection
- > Overheat Protection
- > Short-Circuit Protection
- > Leakage Protection
- > Lightning Protection
- > Emergency Stop Protection

CERTIFICATIONS



SPECIFICATIONS

Rated Input AC Voltage:	AC165~265V
Operating Frequency:	47~63Hz
Rated AC Operating Current:	32A 7kW
IP Rating:	IP66
Operating Altitude:	≤4000m
Operating Humidity:	5%~95%, Non-Condensing
Operating Temperature:	-40°C to +60°C
Storage Temperature:	-40°C to +85°C
Connector Mechanical Operating Life:	≥10000 uses
Product Size:	420mm*251mm*145mm



Explorer 11/22kW

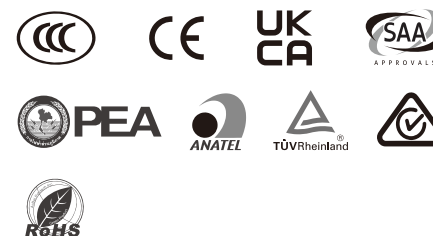
Features

- > Type 2, GB/T EV Charger
- > Three Phases with Optional 11kW or 22kW AC Charging
- > IP66 Rated for Indoor/Outdoor Applications
- > Optional Wireless Connection with RFID/BT/Wifi/4G Functions
- > Optional Wall-Mounted Installation or Pedestal Installation for Different Installation Demands
- > Multiple Protections for Safe Use

PROTECTIONS

- > Undervoltage/Overvoltage Protection
- > Overcurrent Protection
- > Overheat Protection
- > Short-Circuit Protection
- > Leakage Protection
- > Lightning Protection
- > Emergency Stop Protection

CERTIFICATIONS



SPECIFICATIONS

Rated Input AC Voltage:	AC165~265V, AC323~437V
Operating Frequency:	47~63Hz
Rated AC Operating Current:	16A 11kW; 32A 22kW
IP Rating:	IP66
Operating Altitude:	≤2000m
Operating Humidity:	5%~95%, Non-Condensing
Operating Temperature:	-40°C to +55°C
Storage Temperature:	-40°C to +85°C
Connector Mechanical Operating Life:	≥10000 uses
Product Size:	290mm*473mm*160mm



Explorer 2 Flex 7/11/22kW

Features

- > Type 2, GB/T EV Charger
- > Single/Three Phases with Optional 7kW, 11kW or 22kW AC Charging
- > IP66 Rated for Indoor/Outdoor Applications
- > Optional Wireless Connection with RFID/BT/Wifi/4G Functions
- > Optional Wall-Mounted Installation or Pedestal Installation for Different Installation Demands
- > Compact Design for Easy Carry and Installation
- > Multiple Protections for Safe Use

PROTECTIONS

- > Undervoltage/Overvoltage Protection
- > Overcurrent Protection
- > Overheat Protection
- > Short-Circuit Protection
- > Leakage Protection
- > Lightning Protection
- > Emergency Stop Protection

CERTIFICATIONS



SPECIFICATIONS

Rated Input AC Voltage:	AC165~265V, AC323~437V
Operating Frequency:	47~63Hz
Rated AC Operating Current:	16A/32A
IP Rating:	IP66
Operating Altitude:	≤2000m
Operating Humidity:	5%~95%, Non-Condensing
Operating Temperature:	-35°C to +55°C
Storage Temperature:	-40°C to +85°C
Connector Mechanical Operating Life:	≥10000 uses
Communication Protocols:	OCPP 1.6J
Product Size:	310mm*210mm*90mm





Explorer 2 Pro 7/11/22kW

Features

- > Type 2, GB/T EV Charger
- > Single/Three Phases with Optional 7kW, 11kW or 22kW AC Charging
- > IP66 Rated for Indoor/Outdoor Applications
- > Optional Wireless Connection with RFID/BT/Wifi/4G Functions
- > Optional Wall-Mounted Installation or Pedestal Installation for Different Installation Demands
- > Compact Design for Easy Carry and Installation
- > Multiple Protections for Safe Use

PROTECTIONS

- > Undervoltage/Overvoltage Protection
- > Overcurrent Protection
- > Overheat Protection
- > Short-Circuit Protection
- > Leakage Protection
- > Lightning Protection
- > Emergency Stop Protection

CERTIFICATIONS



SPECIFICATIONS

Rated Input AC Voltage:	AC165~265V, AC323~437V
Operating Frequency:	47~63Hz
Rated AC Operating Current:	16A/32A
IP Rating:	IP66
Operating Altitude:	≤2000m
Operating Humidity:	5%~95%, Non-Condensing
Operating Temperature:	-35°C to +55°C
Storage Temperature:	-40°C to +85°C
Connector Mechanical Operating Life:	≥10000 uses
Communication Protocols:	OCPP 1.6J
Product Size:	234mm*334mm*118mm





Explorer 2 7/11/22kW

Features

- > Type 2, GB/T EV Charger
- > Single/Three Phases with Optional 7kW, 11kW or 22kW AC Charging
- > IP66 Rated for Indoor/Outdoor Applications
- > Optional Wireless Connection with RFID/BT/Wifi/4G Functions
- > Optional Wall-Mounted Installation or Pedestal Installation for Different Installation Demands
- > Compact Design for Easy Carry and Installation
- > Multiple Protections for Safe Use

PROTECTIONS

- > Undervoltage/Overvoltage Protection
- > Overcurrent Protection
- > Overheat Protection
- > Short-Circuit Protection
- > Leakage Protection
- > Lightning Protection
- > Emergency Stop Protection

CERTIFICATIONS



SPECIFICATIONS

Rated Input AC Voltage:	AC165~265V, AC323~437V
Operating Frequency:	47~63Hz
Rated AC Operating Current:	16A/32A
IP Rating:	IP66
Operating Altitude:	≤2000m
Operating Humidity:	5%~95%, Non-Condensing
Operating Temperature:	-35°C to +55°C
Storage Temperature:	-40°C to +85°C
Connector Mechanical Operating Life:	≥10000 uses
Communication Protocols:	OCPP 1.6J
Product Size:	234mm*334mm*118mm





Mini Z 7kW

Features

- > Type 2, GB/T EV Charger
- > Single Phase with 7kW AC Charging
- > IP55 Rated for Indoor/Outdoor Applications
- > Optional Wireless Connection with RFID/BT/Wifi/4G Functions
- > Optional Wall-Mounted Installation or Pedestal Installation for Different Installation Demands
- > Compact Design for Easy Carry and Installation
- > Multiple Protections for Safe Use

PROTECTIONS

- > Undervoltage/Overvoltage Protection
- > Overcurrent Protection
- > Overheat Protection
- > Short-Circuit Protection
- > Leakage Protection
- > Lightning Protection
- > Emergency Stop Protection

CERTIFICATIONS



SPECIFICATIONS

Rated Input AC Voltage:	AC165~265V
Operating Frequency:	47~63Hz
Rated AC Operating Current:	32A 7kW
IP Rating:	IP55
Altitude:	≤2000m
Operating Operating Humidity:	5%~95%, Non-Condensing
Operating Temperature:	-30°C to +50°C
Storage Temperature:	-40°C to +85°C
Residual Current Protection Rated Operating Current:	AC 30mA + DC 6mA
Residual Current Protection Rated Action Time:	≤0.1 s
Product Size:	204mm*162mm*80mm





PROTECTIONS

- > Undervoltage/Overvoltage Protection
- > Overcurrent Protection
- > Overheat Protection
- > Short-Circuit Protection
- > Leakage Protection
- > Lightning Protection

CERTIFICATIONS



SPECIFICATIONS

Rated Input AC Voltage:	AC165~265V
Operating Frequency:	47~63Hz
Rated AC Operating Current:	8A&10A&13A&16A
IP Rating:	IP55
Altitude:	≤2000m
Operating Humidity:	5%~95%, Non-Condensing
Operating Temperature:	-25°C to +50°C
Storage Temperature:	-40°C to +85°C
Measurement Accuracy:	1.0
Life Span:	≥10000 uses
IK Level:	IK08
Charging Gun Cable:	5m
Certification:	CQC, CE
Product Size:	230mm* 100mm*67mm

Traveller 3.5kW

Features

- > Type 2, GB/T Portable EV Charger
- > Single Phase with Max 3.5kW AC Charging
- > IP55 Rated for Indoor/Outdoor Applications
- > Plug & Charge
- > Installation Free
- > Compact Design for Easy Carry
- > Multiple Protections for Safe Use

Traveller Lite 3.5kW

Features

- > Type 2, GB/T Portable EV Charger
- > Single Phase with Max 3.5kW AC Charging
- > Max IP67 Rated for Indoor/Outdoor Applications
- > Plug & Charge
- > Installation Free
- > Compact Design for Easy Carry
- > Multiple Protections for Safe Use

PROTECTIONS

- > Undervoltage/Overvoltage Protection
- > Overcurrent Protection
- > Overheat Protection
- > Short-Circuit Protection
- > Leakage Protection
- > Lightning Protection
- > Emergency Stop Protection

CERTIFICATIONS

CE CB

SPECIFICATIONS

Rated Input AC Voltage:	AC220V-240V
Operating Frequency:	50/60HZ
Rated AC Operating Current:	8A&10A&13A&15A&16A
IP Rating:	IP67
Altitude:	≤2000m
Humidity:	5%~95%, Non-Condensing
Operating Temperature:	-40°C to +55°C
Storage Temperature:	-40°C to +85°C
Connector Mechanical Operating Life:	≥10000 uses
IK Level:	IK10
Cable Length:	4.2m
Certification:	CE, CB
Product Size:	234mm*80mm*45mm



Compatible with 7kW/22kW
**ACCESSORIES - TYPE 2
CHARGING CABLE**



ADAPTOR



Features

- > Complies with IEC 62893 Standards
- > Flame-retardant, Pressure-resistant, Wear-resistant, Impact-resistant, and Highly Oil-resistant
- > Max IP55 (Mated) Rated for Water and Dust Protection
- > Housing Color is Black and is Made of PC Material, with Locking Option for Padlock. The Gun Head is Made of PA66 + 30% GF Material
- > Ergonomic Design for Convenient Handling

Features

- > Complies with GB/T20234 and IEC 62196 Standards
- > Flame-retardant, Pressure-resistant, Wear-resistant, Impact-resistant, and Highly Oil-resistant
- > Max IP54 Rated for Water and Dust Protection
- > Housing Color is Black and is Made of PC Material. The Gun Head is Made of PA66 + 30% GF Material
- > Ergonomic Design for Convenient Handling

SPECIFICATIONS

Rated Voltage:	AC 250/480V Compatible with 7kW/22kW
Rated Operating Current:	32A
IP Rating:	IP55,IP67(Terminal connection point)
Mechanical Operating Life:	> 10000 uses
Operating Temperature:	-40°C ~ +50°C
Storage Temperature:	-40°C ~ +80°C
Cable Length:	5m
Storage Bag:	Included
Weight:	3.5kg(5m)

SPECIFICATIONS

Rated Voltage:	AC 250/480V
Rated Operating Current:	32A
IP Rating:	IP54
Mechanical Operating Life:	> 10000 uses
Operating Temperature:	-30°C ~ +50°C
Product Size:	140mm*60mm
Weight:	0.3kg



Our DC Products



DC S-LINE



DC J-LINE (30kW-60kW)



DC Z-LINE



DC J-LINE (80kW-420kW)



DC S-LINE

40kW/60kW/80kW

HIGHLIGHTS

Wide Voltage Range:
Supports 200–1000V DC output, compatible with most EVs on the market and enabling high-voltage charging

High-Power Charging:
Delivers up to 40-80kW DC output with a maximum 200A current, ensuring rapid charging for diverse EV models

High Efficiency:
Equipped with advanced power modules, the system achieves efficiency rates above 96%, reducing energy loss and lowering operating costs

Smart HMI:
Features a 15" high-resolution touchscreen with audio support, providing an intuitive interface for drivers and operators alike

Cloud Management:
Enables remote monitoring, data analytics, and system updates through cloud integration, offering smarter control and operational transparency

Dynamic Load Distribution:
Our intelligent algorithms automatically balance power across two connectors, maximizing uptime and optimizing charging sessions

Easy Maintenance:
Modular architecture and OTA updates simplify servicing, reduce downtime, and extend equipment life

Flexible Payments:
Supports multiple payment methods including Visa, RFID, and mobile apps, ensuring seamless transactions for all users.

PROTECTIONS

Undervoltage protection

Overvoltage protection

DC Overcurrent protection

Over-temperature protection

Surge Protection Device

Emergency Stop Protection

Ground Protection

CERTIFICATIONS



SPECIFICATIONS

Power	40kW/60kW/80kW
Input Voltage	Three phase, 400V $\pm$ 10%, TN-S
Frequency	50Hz/60Hz
Max Output Current	CCS2: 200A CHAdeMO: 125A
Operating Temperature	-25 °C to +65 °C (Above 50°C derating operation)
Relative Humidity	5%-95% Rh non-condensing
Ingress Protection	IP55
Cooling Method	Forced Air-Cooling
Network Connection	4G/Ethernet
Communication Protocols	OCPP 1.6J or OCPP 2.0.1
Screen	15" HD high-contrast touchscreen
Cable Length	Base 5 meter cable, with optional length selection
Dimensions (W*D*H)	850*500*2030mm
Packing Size (W*D*H)	1163*688*2186mm
Weight (Including outer packaging)	$\leq$ 390kg
Payment	RFID / APP / Visa / Mastercard (optional)
Language	Supports multiple language customization



DC S-LINE

120kW/140kW/160kW/180kW/200kW/240kW

HIGHLIGHTS

Wide Voltage Range:

Supports 200–1000V DC output, compatible with most EVs on the market and enabling high-voltage charging

Flexible Configuration:

Scalable power options from 120kW to 240kW to meet diverse customer requirements

Efficient charging:

Wide voltage range, large charging current, reduced charging queue time,improved operational efficiency

Smart HMI:

Features a 15” high-resolution touchscreen with audio support, providing an intuitive interface for drivers and operators alike

Cloud Management:

Enables remote monitoring, data analytics, and system updates through cloud integration, offering smarter control and operational transparency

Dynamic Load Distribution:

Our intelligent algorithms automatically balance power across two connectors, maximizing uptime and optimizing charging sessions

Easy Maintenance:

Modular architecture and OTA updates simplify servicing, reduce downtime, and extend equipment life

Flexible Payments:

Supports multiple payment methods including Visa, RFID, and mobile apps, ensuring seamless transactions for all users

PROTECTIONS

Undervoltage protection

Overvoltage protection

DC Overcurrent protection

Over-temperature protection

Surge Protection Device

Emergency Stop Protection

Ground Protection

CERTIFICATIONS



SPECIFICATIONS

Power	120kW/140kW/160kW/180kW/200kW/240kW
Input Voltage	Three phase, 400V±10%, TN-S
Frequency	50Hz/60Hz
Max Output Current	CCS2: 350A【Boost 500A】CHAdeMO: 125A
Operating Temperature	-25 °C to +65 °C (Above 50°C derating operation)
Relative Humidity	5%-95% Rh non-condensing
Ingress Protection	IP55
Cooling Method	Forced Air-Cooling
Network Connection	4G/Ethernet
Communication Protocols	OCPP 1.6J or OCPP 2.0.1
Screen	15" HD high-contrast touchscreen
Cable Length	Base 5 meter cable, with optional length selection
Dimensions (W*D*H)	850*750*2000mm
Packing Size (W*D*H)	1112*1112*2290mm
Weight (Including outer packaging)	≤580kg
Payment	RFID / APP / Visa / Mastercard (optional)
Language	Supports multiple language customization



DC J-LINE

30kW/40kW

HIGHLIGHTS

Good Value:

High-performance charging in a compact form factor, offering a more affordable solution that is compatible with all EVs

Compact Design:

Flexible installation options — wall-mounted or pedestal-mounted — suitable for both commercial and residential settings

8-inch LCD Touchscreen:

Bright 800-nit display ensures visibility even in direct sunlight, with automatic dimming when not in use

Compact & Lightweight:

Small footprint design makes installation easy and space-efficient, adaptable to any location

Easy Installation:

Simple on-site setup with convenient maintenance; supports both wall-mounted and pedestal-mounted configurations

Flexible Payments:

Enables transactions via mobile app, RFID card, or POS machine

PROTECTIONS

Undervoltage protection

Overvoltage protection

DC Overcurrent protection

Over-temperature protection

Surge Protection Device

Emergency Stop Protection

Ground Protection

CERTIFICATIONS



SPECIFICATIONS

Power	30kW/40kW
Input Voltage	Three phase, 400VAC $\pm$ 15% TN-S
Frequency	45~65 Hz
Max Output Current	CCS2, GBT, CHAdeMO: 125A
Operating Temperature	-30°C ~ +50°C
Relative Humidity	5-95%, without condensation
Ingress Protection	IP54
Cooling Method	Forced Air-Cooling
Network Connection	4G/Ethernet
Communication Protocols	OCPP 1.6J or OCPP 2.0.1
Screen	8" LCD Touch Screen
Cable Length	Base 5 or 7 meter cable, with optional length selection
Dimensions (W*D*H)	690*275*1686mm
Packing Size (W*D*H)	Charger: 1250*1024*852mm Column: 740*680*1978mm
Weight (Including outer packaging)	Charger: 180kg, Column: 101kg
Payment	APP/RFID/POS(Optional)
Language	Supports multiple language customization



DC J-LINE

60kW

HIGHLIGHTS

- Good Value:**
High-performance charging in a compact form factor, offering a more affordable solution that is compatible with all EVs
- Compact Design:**
Flexible installation options — wall-mounted or pedestal-mounted — suitable for both commercial and residential settings
- 8-inch LCD Touchscreen:**
Bright 800-nit display ensures visibility even in direct sunlight, with automatic dimming when not in use
- Compact & Lightweight:**
Small footprint design makes installation easy and space-efficient, adaptable to any location
- Easy Installation:**
Simple on-site setup with convenient maintenance; supports both wall-mounted and pedestal-mounted configurations
- Flexible Payments:**
Enables transactions via mobile app, RFID card, or POS machine

PROTECTIONS

- Undervoltage protection
- Overvoltage protection
- DC Overcurrent protection
- Over-temperature protection
- Surge Protection Device
- Emergency Stop Protection
- Ground Protection

CERTIFICATIONS



SPECIFICATIONS

Power	60kW
Input Voltage	Three phase, 400VAC±15% TN-S
Frequency	45~65 Hz
Max Output Current	CCS2: 200A CHAdeMO: 125A
Operating Temperature	-30°C~+50°C
Relative Humidity	5-95%, without condensation
Ingress Protection	IP54
Cooling Method	Forced Air-Cooling
Network Connection	4G/Ethernet
Communication Protocols	OCPP 1.6J or OCPP 2.0.1
Screen	8"LCD Touch Screen
Cable Length	Base 5 or 7 meter cable, with optional length selection
Dimensions (W*D*H)	690*357*1686mm
Packing Size (W*D*H)	Charger: 1250*1024*742mm Column: 740*680*1878mm
Weight (Including outer packaging)	Charger: 216.5kg, Column: 107kg
Payment	APP/RFID/POS(Optional)
Language	Supports multiple language customization



DC J-LINE

80kW/120kW/160kW

HIGHLIGHTS

High-Speed Charging:

Delivers 80–120kW output power with average charging times of 30–60 minutes. Supports multiple connector standards including CCS, CHAdeMO, and GB/T

Customizable Cloud Platform:

Offers software customization and secure cloud access with encryption options to protect operator data

8-inch LCD touchscreen:

Bright 800-nit display ensures visibility even in direct sunlight, with automatic dimming when not in use

Optional Software:

Compatible with cloud-based charging management systems and mobile applications

OTA & On-Site Upgrades:

Supports both over-the-air and on-site upgrades with no disassembly required, ensuring long-term scalability

Flexible Payments:

Enables transactions via mobile app, RFID card, or POS machine

PROTECTIONS

Undervoltage protection

Overvoltage protection

DC Overcurrent protection

Over-temperature protection

Surge Protection Device

Emergency Stop Protection

Ground Protection

CERTIFICATIONS



SPECIFICATIONS

Power	80kW/120kW/160kW
Input Voltage	Three phase, 400VAC±15% TN-S
Frequency	45~65 Hz
Max Output Current	CCS2: 400A GBT: 250A CHAdeMO 125A
Operating Temperature	-30°C~+50°C
Relative Humidity	5-95%, without condensation
Ingress Protection	IP54
Cooling Method	Forced Air-Cooling
Network Connection	4G/Ethernet
Communication Protocols	OCPP 1.6J or OCPP 2.0.1
Screen	8"LCD Touch Screen
Cable Length	Base 5 or 7 meter cable, with optional length selection
Dimensions (W*D*H)	700*490*1696mm
Packing Size (W*D*H)	1090*750*1900mm
Weight (Including outer packaging)	324kg, 347kg, 392kg
Payment	APP/RFID/POS(Optional)
Language	Supports multiple language customization





DC J-LINE

180kW/240kW

HIGHLIGHTS

- High-Speed Charging:**
Delivers 180–240kW output power with average charging times of 30–60 minutes. Supports multiple connector standards including CCS, CHAdeMO, and GB/T
- Customizable Cloud Platform:**
Offers software customization and secure cloud access with encryption options to protect operator data
- 8-inch LCD touchscreen:**
Bright 800-nit display ensures visibility even in direct sunlight, with automatic dimming when not in use
- Optional Software:**
Compatible with cloud-based charging management systems and mobile applications
- OTA & On-Site Upgrades:**
Supports both over-the-air and on-site upgrades with no disassembly required, ensuring long-term scalability
- Flexible Payments:**
Enables transactions via mobile app, RFID card, or POS machine

PROTECTIONS

- Undervoltage protection
- Overvoltage protection
- DC Overcurrent protection
- Over-temperature protection
- Surge Protection Device
- Emergency Stop Protection
- Ground Protection

CERTIFICATIONS



SPECIFICATIONS

Power	180kW/240kW
Input Voltage	Three phase, 400VAC±15% TN-S
Frequency	45~65 Hz
Max Output Current	CCS2: 400A GBT: 250A CHAdeMO 125A
Operating Temperature	-30°C~+50°C
Relative Humidity	5-95%, without condensation
Ingress Protection	IP54
Cooling Method	Forced Air-Cooling
Network Connection	4G/Ethernet
Communication Protocols	OCPP 1.6J or OCPP 2.0.1
Screen	8"LCD Touch Screen
Cable Length	Base 5 or 7 meter cable, with optional length selection
Dimensions (W*D*H)	750*605*1805mm
Packing Size (W*D*H)	180kW: 1170*880*2080mm 240kW: 1240*1050*2120mm
Weight (Including outer packaging)	460kg, 528kg
Payment	APP/RFID/POS(Optional)
Language	Supports multiple language customization





DC J-LINE

300kW/360kW/420kW

HIGHLIGHTS

High-Speed Charging:

Delivers 300–420kW output power with average charging times of 30–60 minutes. Supports multiple connector standards including CCS, CHAdeMO, and GB/T

Customizable Cloud Platform:

Offers software customization and secure cloud access with encryption options to protect operator data

8-inch LCD touchscreen:

Bright 800-nit display ensures visibility even in direct sunlight, with automatic dimming when not in use

Optional Software:

Compatible with cloud-based charging management systems and mobile applications

OTA & On-Site Upgrades:

Supports both over-the-air and on-site upgrades with no disassembly required, ensuring long-term scalability

Flexible Payments:

Enables transactions via mobile app, RFID card, or POS machine

PROTECTIONS

Undervoltage protection

Overvoltage protection

DC Overcurrent protection

Over-temperature protection

Surge Protection Device

Emergency Stop Protection

Ground Protection

CERTIFICATIONS



SPECIFICATIONS

Power	300kW/360kW/420kW
Input Voltage	Three phase, 400VAC $\pm$ 15% TN-S
Frequency	45~65 Hz
Max Output Current	CCS2:400A GBT:300A
Operating Temperature	-30°C~+50°C
Relative Humidity	5-95%, without condensation
Ingress Protection	IP54
Cooling Method	Forced Air-Cooling
Network Connection	4G/Ethernet
Communication Protocols	OCPP 1.6J or OCPP 2.0.1
Screen	8"LCD Touch Screen
Cable Length	Base 5 or 7 meter cable, with optional length selection
Dimensions (W*D*H)	850*1100*2200mm
Packing Size (W*D*H)	1210*1130*2480mm
Weight (Including outer packaging)	695kg, 750kg, 806kg
Payment	APP/RFID/POS(Optional)
Language	Supports multiple language customization



DC Z-LINE

250kW

PROTECTIONS

Undervoltage protection
Overvoltage protection
DC Overcurrent protection
Over-temperature protection
Surge Protection Device
Emergency Stop Protection
Ground Protection

CERTIFICATIONS



SPECIFICATIONS

Technical Specifications	
Protection	IP 55 System, IP 67 Battery
Mechanical Protection	IK 10
Max system DC output powerii	250kW
Dimension (H*W*D)	2260mm * 1340mm * 1100mm
Weight	2650 kg
Operating Temperature	-25°C to 50°C
Humidity	5% to 90%
Network Connections	GSM/3GILTE(CE)
EMC emission1	IEC 61000-6-2, IEC 61000-6-4, EN, 61851-21-2:2018(CE)
Noise emission (at 1m distance)	≤ 55 dB(A)
Output DC charging point #1	
DC output power	Max. 150 kW (DPD)
DC output current	Max. 350 A @430V, Max. 188 A @800V
DC output voltage	200-920VDC
DC output interface	CCS Type 2 Combo
DC Metering conform to MessEG	Yes (only German variant)
DC Metering conform to MID	Yes (EU -non German variants)
Vehicle PLC communication	ISO 15118, DIN 70121
Output DC charging point #2	
DC output power	Max.150 kW(DPD)
DC output currentiv	Max. 350 A @430V, Max.188 A @800V
DC output voltage	200-920VDC
DC output interface	CCS Type 2 Combo
DC Metering conform to MessEG	Yes (only German variant)
DC Metering conform to MID	Yes (EU -non German variants)
Vehicle PLC communication	ISO 15118. DIN 70121
Input	
Grid connection	400 V, 50 Hz; TN-C-S; 3P + N + PE 16 / 32 / 63A; 2 low voltage safety lines (Impact)
Electrical protection	Overvoltage category IV(DIN 60664-1)
RCD protection	Yes (Type B)
Remote Emergency Stop Function (optional):	Yes (according to APEA-Electric Vehicle Charging Installations a Filling Stations)
Power factor	> 0.95
Efficiency	≤ 0°C: ≥ 75%, >0°C- +30°C: ≥ 80%, >+30°C: ≥ 75%
Battery	
Internal battery rated capacity	193.536kWh
Maximum usable capacity	160 kWh
SoCmin./Socmax.	5%/95%
Max.recharge power	2*20kW to battery, 1*40kW (DPD) to vehicle
User Interface	10" Touch Screen
HMI	43" Advertising Screen, Status LEDs, Charge Stop button
Authorization / Payment	RFID Mifare (IEC 14443 AB) Compliant to PCI-PTS 3.x, PCI-PTS 6-858318327> NFC /Credit Card (IEC 18092)
Operator interface	
OCPP	OCPP 1.6-J, Improved security for OCPP 1.6-J, edition 2, OCPP 2.0.1
Cable Management System	Support (Option)



Our Robotic Products



FA400A Charging Robot



FA400B Charging Robot



FS200C Charging Robot



FS200D Charging Robot



FA400C Charging Robot



FS200B Charging Robot



MA400G Charging Robot



MA400GB Charging Robot



FA400A Charging Robot

APPLICATION SCENARIO

Industrial parks, parking lots, bus charging stations, and autonomous vehicle charging sites

KEY FEATURES

- > Equipped with 6 active degrees of freedom, ensuring smooth movements and high operational efficiency
- > Supports scalability to ground rail or overhead rail systems for mobile gun-handling applications
- > Capable of serving “one vehicle, multiple connectors” configurations with a single robot
- > Delivers strong visual impact and presentation quality, ideal for demonstrations and exhibitions

TECHNOLOGY HIGHLIGHTS

Proprietary Monocular Vision Pose Recognition Algorithm

Replaces traditional dual-lens stereo cameras and structured light sensors with a single industrial camera, achieving precise spatial detection with simplified hardware and lower cost.

Innovative Trajectory Optimization Algorithm

Significantly enhances the plug-in and unplugging force of the robotic arm, improving both reliability and operational efficiency during the charging process.



SPECIFICATIONS

Weight	Overall weight	<150kg
Size	Overall Dimensions (L x W x H)	<600 x 600 x 1500mm
	Adaptable Charging Port Height Range	750-1200mm
	Arm Length	≥1350mm
Performance	Operating Temperature	-10°C ~ 45°C
	IP (Ingress Protection)	IP54
	Humidity	20%~95%
	Maximum Effective Operating Range	Length Direction ± 200mm Width Direction ± 200mm Height Direction 750-1200mm
	Maximum Yaw Angle Compatible with Vehicle Charging Port	±5°
	Robotic Arm Degrees of Freedom	6
	Payload Capacity	10kg
	Visual Positioning Accuracy	0.1mm
	Matching Success Rate	≥99.9%
	Maximum Matching Time	≤60s
System Connectivity	Interfaces	Bluetooth/485/Ethernet/4G/Wi-Fi
	Control	Remote Controller/Backend Platform
Electrical Characteristics	Power Consumption	Peak ≤2 kW, Average ≤1 kW
	Operating Voltage	220V AC, 50 Hz



FA400B Charging Robot

APPLICATION SCENARIO

Industrial parks, parking lots, bus charging stations, and autonomous vehicle charging sites

KEY FEATURES

- > Equipped with 6 active degrees of freedom, ensuring smooth movements and high operational efficiency
- > Supports scalability to ground rail or overhead rail systems for mobile gun-handling applications
- > Capable of serving “one vehicle, multiple connectors” configurations with a single robot
- > Delivers strong visual impact and presentation quality, ideal for demonstrations and exhibitions

TECHNOLOGY HIGHLIGHTS

Proprietary Monocular Vision Pose Recognition Algorithm

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Innovative Trajectory Optimization Algorithm

Significantly enhances the plug-in and unplugging force of the robotic arm, improving both reliability and operational efficiency during the charging process.



SPECIFICATIONS

Weight	Overall weight	<150kg
Size	Overall Dimensions (L x W x H)	<600 x 600 x 1500mm
	Adaptable Charging Port Height Range	750-1200mm
	Arm Length	≥1350mm
Performance	Operating Temperature	-10°C ~ 45°C
	IP (Ingress Protection)	IP54
	Humidity	20%~95%
	Maximum Effective Operating Range	Length Direction ± 200mm Width Direction ± 200mm Height Direction 750-1200mm
	Maximum Yaw Angle Compatible with Vehicle Charging Port	±5°
	Robotic Arm Degrees of Freedom	6
	Payload Capacity	10kg
	Visual Positioning Accuracy	0.1mm
	Matching Success Rate	≥99.9%
	Maximum Matching Time	≤60s
System Connectivity	Interfaces	Bluetooth/485/Ethernet/4G/Wi-Fi
	Control	Remote Controller/Backend Platform
Electrical Characteristics	Power Consumption	Peak ≤2 kW, Average ≤1 kW
	Operating Voltage	220V AC, 50 Hz



FA400C Charging Robot

APPLICATION SCENARIO

Industrial parks, parking lots, bus charging stations, and autonomous vehicle charging sites

KEY FEATURES

- > Equipped with 6 active degrees of freedom, ensuring smooth movements and high operational efficiency
- > Supports scalability to ground rail or overhead rail systems for mobile gun-handling applications
- > Capable of serving “one vehicle, multiple connectors” configurations with a single robot
- > Delivers strong visual impact and presentation quality, ideal for demonstrations and exhibitions

TECHNOLOGY HIGHLIGHTS

Proprietary Monocular Vision Pose Recognition Algorithm

Replaces traditional dual-lens stereo cameras and structured light sensors with a single industrial camera, achieving precise spatial detection with simplified hardware and lower cost.

Innovative Trajectory Optimization Algorithm

Significantly enhances the plug-in and unplugging force of the robotic arm, improving both reliability and operational efficiency during the charging process.



SPECIFICATIONS

Weight	Overall weight	<150kg
Size	Overall Dimensions (L x W x H)	<600 x 600 x 1500mm
	Adaptable Charging Port Height Range	750-1200mm
	Arm Length	≥1350mm
Performance	Operating Temperature	-10°C ~ 45°C
	IP (Ingress Protection)	IP54
	Humidity	20%~95%
	Maximum Effective Operating Range	Length Direction ± 200mm Width Direction ± 200mm Height Direction 750-1200mm
	Maximum Yaw Angle Compatible with Vehicle Charging Port	±5°
	Robotic Arm Degrees of Freedom	6
	Payload Capacity	10kg
	Visual Positioning Accuracy	0.1mm
	Matching Success Rate	≥99.9%
	Maximum Matching Time	≤60s
System Connectivity	Interfaces	Bluetooth/485/Ethernet/4G/Wi-Fi
	Control	Remote Controller/Backend Platform
Electrical Characteristics	Power Consumption	Peak ≤2 kW, Average ≤1 kW
	Operating Voltage	220V AC, 50 Hz



FS200B Charging Robot

APPLICATION SCENARIO

Airports, mines, steel plants, industrial parks, parking lots, bus charging stations, and autonomous vehicle charging sites

KEY FEATURES

- > Reliable performance in complex, all-weather environments
- > Compact footprint — occupies just 0.22m of parking space
- > Highly compatible with various EV models and high-power fast chargers
- > Exceptional plug-in success rate: 99.9%+, with automatic recovery capability
- > Cost-effective solution with low maintenance requirements

TECHNOLOGY HIGHLIGHTS

Proprietary Rope-Driven Flexible Arm

Innovative patented design that reduces cost through environmental adaptability. Offers dust and water resistance with flexible instead of rigid connections, effectively compensating for vehicle movement during charging.

Self-Developed Monocular Vision Pose Recognition Algorithm

A core proprietary algorithm that uses a single camera to replace traditional dual-lens and structured light systems, achieving precise spatial recognition with lower hardware complexity.

Fully In-House Hardware Development

Includes independently developed robot controller, drive modules, and sensors for complete system integration and optimized performance.



SPECIFICATIONS

Weight	Overall weight	<200kg
Size	Overall Dimensions (L x W x H)	<1250 x 220 x 1600mm
	Adaptable Charging Port Height Range	800-1100mm
Performance	Operating Temperature	-20°C ~ 65°C(Customizable - 40°C ~ 65°C)
	IP (Ingress Protection)	IP65
	Humidity	20%~95%
	Maximum Effective Operating Range	Length Direction ± 120mm Width Direction ± 120mm Height Direction 800-1000mm
	Maximum Yaw Angle Compatible with Vehicle Charging Port	±3°
	Robotic Arm Degrees of Freedom	4
	Payload Capacity	30kg
	Visual Positioning Accuracy	0.1mm
	Matching Success Rate	≥99.9%
	Maximum Matching Time	≤120s
System Connectivity	Interfaces	Bluetooth/Wi-Fi
	Control	Remote Controller/Backend Platform
Electrical Characteristics	Power Consumption	Peak≤1kW, Average≤500W
	Operating Voltage	220V AC, 50Hz



FS200C Charging Robot

APPLICATION SCENARIO

Airports, mines, steel plants, industrial parks, parking lots, bus charging stations, and autonomous vehicle charging sites

KEY FEATURES

- > Reliable performance in complex, all-weather environments
- > Compact footprint — occupies just 0.22m of parking space
- > Highly compatible with various EV models and high-power fast chargers
- > Exceptional plug-in success rate: 99.9%+, with automatic recovery capability
- > Cost-effective solution with low maintenance requirements

TECHNOLOGY HIGHLIGHTS

Proprietary Rope-Driven Flexible Arm

Innovative patented design that reduces cost through environmental adaptability. Offers dust and water resistance with flexible instead of rigid connections, effectively compensating for vehicle movement during charging.

Self-Developed Monocular Vision Pose Recognition Algorithm

A core proprietary algorithm that uses a single camera to replace traditional dual-lens and structured light systems, achieving precise spatial recognition with lower hardware complexity.

Fully In-House Hardware Development

Includes independently developed robot controller, drive modules, and sensors for complete system integration and optimized performance.



SPECIFICATIONS

Weight	Overall weight	<200kg
Size	Overall Dimensions (L x W x H)	<1350 x 330 x 1600mm
	Adaptable Charging Port Height Range	800-1100mm
Performance	Operating Temperature	-20°C ~ 65°C (Customizable - 40°C ~ 65°C)
	IP (Ingress Protection)	IP65
	Humidity	20%~95%
	Maximum Effective Operating Range	Length Direction ± 120mm Width Direction ± 120mm Height Direction 800-1000mm
	Maximum Yaw Angle Compatible with Vehicle Charging Port	±3°
	Robotic Arm Degrees of Freedom	4
	Payload Capacity	30kg
	Visual Positioning Accuracy	0.1mm
System Connectivity	Matching Success Rate	≥99.9%
	Maximum Matching Time	≤120s
	Interfaces	Bluetooth/Wi-Fi
Electrical Characteristics	Control	Remote Controller/Backend Platform
	Power Consumption	Peak ≤1kW, Average ≤500W
	Operating Voltage	220V AC, 50Hz



FS200D Charging Robot

APPLICATION SCENARIO

Airports, mines, steel plants, industrial parks, parking lots, bus charging stations, and autonomous vehicle charging sites

KEY FEATURES

- > Reliable performance in complex, all-weather environments
- > Compact footprint — occupies just 0.22m of parking space
- > Highly compatible with various EV models and high-power fast chargers
- > Exceptional plug-in success rate: 99.9%+, with automatic recovery capability
- > Cost-effective solution with low maintenance requirements

TECHNOLOGY HIGHLIGHTS

Proprietary Rope-Driven Flexible Arm

Innovative patented design that reduces cost through environmental adaptability. Offers dust and water resistance with flexible instead of rigid connections, effectively compensating for vehicle movement during charging.

Self-Developed Monocular Vision Pose Recognition Algorithm

A core proprietary algorithm that uses a single camera to replace traditional dual-lens and structured light systems, achieving precise spatial recognition with lower hardware complexity.

Fully In-House Hardware Development

Includes independently developed robot controller, drive modules, and sensors for complete system integration and optimized performance.



SPECIFICATIONS

Weight	Overall weight	<200kg
Size	Overall Dimensions (L x W x H)	<1350 x 260 x 1600mm
	Adaptable Charging Port Height Range	800-1100mm
Performance	Operating Temperature	-20°C ~ 65°C (Customizable - 40°C ~ 65°C)
	IP (Ingress Protection)	IP65
	Humidity	20%~95%
	Maximum Effective Operating Range	Length Direction ± 120mm Width Direction ± 120mm Height Direction 800-1000mm
	Maximum Yaw Angle Compatible with Vehicle Charging Port	±3°
	Robotic Arm Degrees of Freedom	4
	Payload Capacity	30kg
	Visual Positioning Accuracy	0.1mm
	Matching Success Rate	≥99.9%
	Maximum Matching Time	≤120s
System Connectivity	Interfaces	Bluetooth/Wi-Fi
	Control	Remote Controller/Backend Platform
Electrical Characteristics	Power Consumption	Peak ≤1kW, Average ≤500W
	Operating Voltage	220V AC, 50Hz



MA400G Charging Robot

APPLICATION SCENARIO

Large-scale charging stations, multi-story parking garages, and parking lots (public or residential) where charging piles cannot be deployed

KEY FEATURES

- > Autonomous driving and self-navigation:
 - a. Fixed-route cruising
 - b. Autonomous navigation to the target parking space in public lots
- > Supports both “one robot with multiple connectors for one vehicle” mode and “multi-vehicle multi-connector” mode
- > Equipped with 6 active degrees of freedom, ensuring smooth movements and high operational efficiency
- > Optional energy storage integration (MA400GB)
- > Delivers strong visual impact and presentation quality, ideal for demonstrations and exhibitions

TECHNOLOGY HIGHLIGHTS

Proprietary Monocular Vision Pose Recognition Algorithm

Replaces traditional dual-lens stereo cameras and structured light sensors with a single industrial camera, achieving precise spatial detection with simplified hardware and lower cost.

Innovative Trajectory Optimization Algorithm

Significantly enhances the plug-in and unplugging force of the robotic arm, improving both reliability and operational efficiency during the charging process.



SPECIFICATIONS

Weight	Overall weight	<200kg
	Overall Dimensions (L x W x H)	<1300 x 700 x 1400mm
Size	Adaptable Charging Port Height Range	750-1200mm
	Arm Length	≥1350mm
Performance	Operating Temperature	-10°C ~ 45°C
	IP (Ingress Protection)	IP54
	Humidity	20%~95%
	Maximum Effective Operating Range	Length Direction ± 200mm Width Direction ± 200mm Height Direction 750-1200mm
	Maximum Yaw Angle Compatible with Vehicle Charging Port	±3°
	Robotic Arm Degrees of Freedom	6
	Payload Capacity	10kg
	Visual Positioning Accuracy	0.1mm
	Matching Success Rate	≥99.9%
	Maximum Matching Time	≤60s
System Connectivity	Interfaces	Bluetooth/485/Ethernet/4G/Wi-Fi
	Control	Remote Controller/Backend Platform
Electrical Characteristics	Power Consumption	Peak ≤2 kW, Average ≤1kW
	Operating Voltage	220V AC, 50Hz
Mobility Parameters	Robot Travel Speed	30m/min
	Robot Turning Radius	≤1m
	Robot Navigation Method	Magnetic Stripe/ SLAM
	Minimum Ground Clearance	20mm



MA400GB Charging Robot

APPLICATION SCENARIO

Large-scale charging stations, multi-story parking garages, and parking lots (public or residential) where charging piles cannot be deployed

KEY FEATURES

- > Autonomous driving and self-navigation:
 - a. Fixed-route cruising
 - b. Autonomous navigation to the target parking space in public lots
- > Supports both “one robot with multiple connectors for one vehicle” mode and “multi-vehicle multi-connector” mode
- > Equipped with 6 active degrees of freedom, ensuring smooth movements and high operational efficiency
- > Optional energy storage integration (MA400GB)
- > Delivers strong visual impact and presentation quality, ideal for demonstrations and exhibitions

TECHNOLOGY HIGHLIGHTS

Proprietary Monocular Vision Pose Recognition Algorithm

Replaces traditional dual-lens stereo cameras and structured light sensors with a single industrial camera, achieving precise spatial detection with simplified hardware and lower cost.

Innovative Trajectory Optimization Algorithm

Significantly enhances the plug-in and unplugging force of the robotic arm, improving both reliability and operational efficiency during the charging process.



SPECIFICATIONS

Weight	Overall weight	<1.2t
	Overall Dimensions (L x W x H)	<1600 x 1000 x 1800mm
Size	Adaptable Charging Port Height Range	800-1100mm
	Arm Length	≥1350mm
Performance	Operating Temperature	-10°C ~ 45°C
	IP (Ingress Protection)	IP54
	Maximum Effective Operating Range	Length Direction ± 180mm Width Direction ± 180mm Height Direction 800-1100mm
	Maximum Yaw Angle Compatible with Vehicle Charging Port	±3°
	Robotic Arm Degrees of Freedom	6
	Payload Capacity	10kg
	Visual Positioning Accuracy	0.1mm
	Matching Success Rate	≥99.9%
	Maximum Matching Time	≤60s
	Interfaces	Bluetooth/485/Ethernet/4G/Wi-Fi
System Connectivity	Control	Remote Controller/Backend Platform
	Robot Travel Speed	30m/min
Electrical Characteristics	Robot Turning Radius	≤2.5m
	Robot Climbing Angle	<5°
	Robot Navigation Method	LiDAR/SLAM
	Minimum Ground Clearance	98mm
	Battery Capacity	60-90 kWh
Mobility Parameters	Battery Cycle Life	≥3000 cycles
	Maximum Discharge Power	≥60kW
	Energy Storage Battery Type	LFP
	Cooling Method	Liquid cooling
	Recharging Voltage	750V DC
	Recharging Current	≤120A
	Recharging Power	≤60kW
	Number of Charging Connectors	1
	Charging Interface and Protocol standards	GB/T
	Output Voltage	200-1000 V DC
Energy Storage Information	Output Current	≤120 A
	Output Power	≤60 kW
	Battery Pack SOC Lower Limit	10% (output disabled below this level)
Display Screen	Dimension	22-inch waterproof touchscreen
	Display Resolution	1080 x 1920



Core Technology – Monocular Camera

ZD Energy's proprietary monocular camera, when compared to other solutions, can significantly reduce costs while still meeting functional requirements.

Technology Highlights

> High Precision & Speed

Achieves 0.1 mm recognition accuracy and 10–30 second rapid identification; effectively resists environmental interference and minimizes the impact of wear or deformation of the vehicle-side charging port on insertion success.

> All-Weather Reliability

Capable of accurate spatial pose recognition under challenging conditions such as darkness (underground), rain, snow, and direct sunlight.

> Simple Structure & Easy Deployment

Compact design allows for quick installation and integration.

> Low Cost

Efficient and affordable hardware setup.

Global Leader in Charging Robots



- > The first entrepreneurial team dedicated to intelligent charging, with over ten years of focus.
- > Holds the world's largest number of IPs in automatic charging robots, including patents and standards.
- > Offers the most diverse product lineup globally, covering eight major types of charging robots.
- > Leads the world in real-world deployments across airports, mines, steel plants, parks, and parking lots.



- > The only company with a self-developed rope-driven flexible arm, winner of China's top robot patent award.
- > The only system achieving high-precision charging port localization via monocular vision, published in top SCI journals.
- > The only automated charging robot maker with a dedicated automotive-grade production line.