

Ampax series

Commercial DC fast charging station



- Self-developed control module
- Expandable design of split cabinet
- Diversified scenario operation
- Perfect choice for commercial use

PRODUCT INTRODUCTION

- Ampax series can be equipped with 1 or 2 charging guns, with an output power from 60kW to 240kW, Upgradable 320KW, which can charge most EVs with 80% of the mileage within 30 minutes.
- Ampax series is compatible with all types of Electric Vehicles currently on the market and complies with SAE J1772/CCS Type 1 or CCS Type 2 charging plug.



PRODUCT HIGHLIGHTS

- Integrated Smart HMI: 10-inch high-contrast LCD touchscreen
- Safe and reliable, with multiple fault protection
- Ethernet RJ-45 interface networking is adopted, and 4G module is optional, compliant with the OCPP 1.6J protocol. Upgraded and adaptable to OCPP 2.0.1 protocol in 2024
- APP, RFID charging control approval, with emergency stop function
- Type 3R/IP54, dustproof, waterproof and anti-corrosion
- Charging module separated from control system, stable and safe performance
- Multiple module output in parallel, flexible configuration and easy maintenance
- Constant power module and smart power allocation, high charging efficiency
- All the control system can be remotely or locally upgraded

Specification of Ampax series

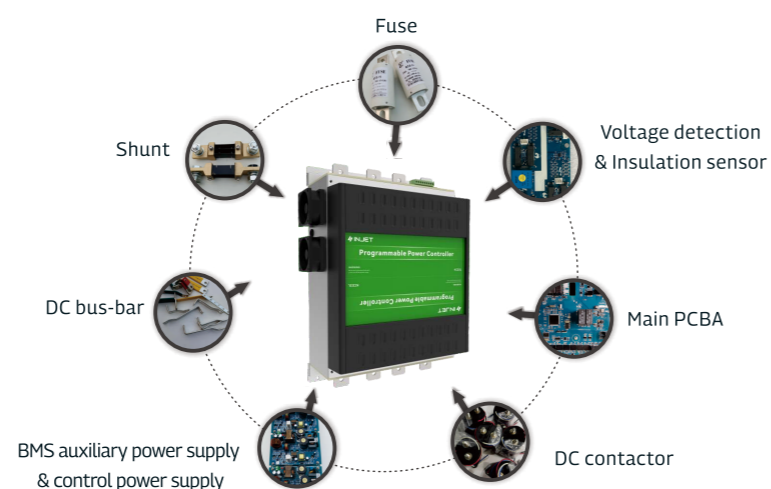
Power Specification			
Input voltage rating	400 VAC ±10%, 50/60 Hz (EU version) 480 VAC ±10%, 50/60 Hz (North American version)		
Power wiring	3P+N+PE		
Dc voltage output	150 ~ 1000VDC		
Charging connector	CCS 1+ CCS 1/ CCS 2+ CCS 2/ CCS 1+ CCS 2/ GB/T + GB/T		
Charging cable length	5 meters; Customizable with a maximum length of 7.5 meters		
DC power output rating	60~240KW, Upgradable 320KW		
Constant power range	300 ~ 1000V DC		
The maximum output current	250A		
PF(Power Factor)	> 0.98(Load ≥ 50%)		
THD-I	≤ 5%(Rating voltage input, Load≥50%)		
Peak efficiency	≥ 96%		
Voltage stabilized accuracy	≤ ±0.5%		
Current stabilized accuracy	≤ ±1%		
Output voltage error	± 0.5%		
Output current error	≤ ±1%(when output current ≥ 30A); ≤ ±0.3A(when output current < 30A)		
Ripple factor	≤ ±0.5%(RMS)		
Electric energy measurement method	Measuring DC output electric energy		
Connector mechanical operating life	≤ 10000 times, without load		
User Interface & Control			
Charging control	RFID		
Human-machine interface	10-inch high-contrast touch screen		
Indicators	High brightness multi-color LED lights		
Network interface	Ethernet (RJ-45) / 4G		
Communication protocol	OCPP 1.6J; upgradable and adaptable to OCPP 2.0.1 protocol in 2024		
Environmental			
Storage temperature	-40°C to 75°C		
Operating temperature	-30°C to 50°C, derating output in 55°C		
Touch screen operating temperature	-20°C to 70°C		
Operating humidity	Up to 95% non-condensing		
Altitude	≤ 2000m		
Cooling method	Forced air cooling		
Protection			
Over voltage protection	Yes	Short circuit protection	Yes
Over load protection	Yes	Ground protection	Yes
Over-temp protection	Yes	Surge protection	Yes
Under voltage protection	Yes	Emergency stop	Yes
Mechanical			
Protection ratings	Type 3R/IP54		
Dimension (W×D×H)	1040mm × 580mm × 2200mm		
Net weight	≤ 500kg		
Enclosure material	Metal		
Color	RAL 7032 (Grey)		

Components of DC charging station with & without power controller:



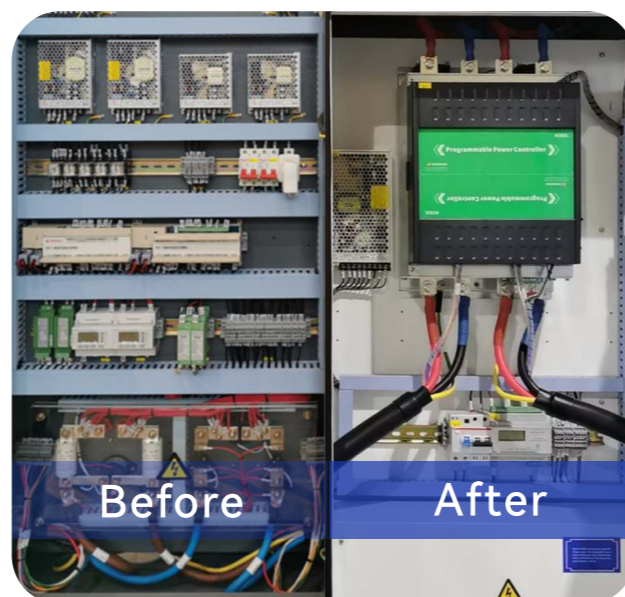
INJET INTEGRATED DC CHARGING STATION

- Programmable Power Controller (exclusive from INJET)
- Integrated Smart HMI
- Charging module
- Cabinet
- Cable & plug



TRADITIONAL DC CHARGING STATION

- DC watt-hour meter
- Voltage detection transmitter
- Insulation detector
- Charging pile controller
- 24V/12V AC/DC switching power supply(only for Chinese GB/T standard)
- AC/DC power supply module
- MCB, Relay, SPD
- MCCB, AC Contactor
- DC vacuum contactor
- 600 pcs of terminal blocks+ 300 pcs wires



Maintenance of DC charging station with & without power controller:

1. Integrated controller maintenance less than 8 hours

- Failure occurs: The background directly judges the fault----2~4 hours
- Equipment needs to be replaced: Direct replacement of power controller----2~4 hours
- Device back up and running

2. Traditional breakdown repair 2-10 days in total

- Failure occurs: Maintenance personnel to the scene----1~2 days; Determine the fault point----- 1~2 days
- Need accessories: Spare parts delivery---- 2~6 days; Repair and recovery ----1~2 days
- Device back up and running



OUR SERVICES

- OEM / ODM available.
- 24/7 online service.
- Technical support
- Market analysis
- Enabling policy
- Find Partner: As the new star of the new energy industry, this dc charging station has a competitive advantage with a high-yield and low-risk worth investing in. As the top 10 ev charger manufacturers in China, we sincerely invite agents/partners to cooperate in the long term to jointly R&D and share the market. Welcome to inquire!