EV Charging Solutions

Applicable Scenario

AI is a smart and economical AC charger that is designed for EV manufacturers and real estate developers:

Series : 7kW - 11kW
AC Wallbox

Product Features

Key benefits
- Combine technology with aesthetic
- Easy installation - saves time
- Compact design - saves space
- High quality- more reliability

Main features
- 7kW and 11kW charging available
- Flexible smart connectivity Etherent, Wi-Fi, GPRS, RFID, QR code, OCPP (optional: others)
- Ultra long life, safe & reliable
- Integrated earth leakage protection it saves extra devices
- Surge protection
- O/C, S/C, Over-temp, reverse battery connection
- Resistant to vibration
- Robust all-weather enclosure for indoor and outdoor use
- Display- 4.3" TFT touch screen operation interface (Optinal)
- Charge mode set up to fill automatically
- Charge mode according to electric units
- Charge according to amount and time

Product Specifications

Technical Data	7KW - JCH	11KW - JCH
Characteristics		
Power Connection		
Input/Output Voltage	230V AC+/-10%	400V AC+/-10%
Frequency	50Hz +/- 10%	50Hz +/- 10%
Rated Power	7 kW	11 kW
Rated Current	32 Amps	16 Amps
General Specifications		
Shell Material	Hot-dip galvanized steel	Hot-dip galvanized steel
Charging Mode	IEC61851-1 Charging mode 3	IEC61851-1 Charging mode 3
AC Plug	IEC 62196-2 AC Type 2	IEC 62196-2 AC Type 2
Display	4.3" TFT Color touch screen	4.3" TFT Color touch screen
RFID System	Mifare (Classic, DesFire EV1) or other	Mifare (Classic, DesFire EV1) or other
Communication	GPRS / Wi-Fi	GPRS / Wi-Fi
Comm Protocols	OCPP	OCPP
Place of Installation	Indoor and Outdoor	Indoor and Outdoor
Altitude	<3000m	<3000m
Protection Grade	IP54	IP54
Operating Temp	-20°C to 50 °C	-20°C to 50 °C
Storage Temp	-40°C to 70°C	-40°C to 70°C
Humidity	5% to 95% without condensation	5% to 95% without condensation
Cooling Mode	Natural cooling	Natural cooling
Length of Charging Cable	5m (optional)	5m (optional)
Dimensions (WxDxH)	280mmX120mmX400mm	280mmX207mmX1370mm
Weight	7.5 kg	11 kg

AC Wallbox - 22kW - 43kW

Applicable Scenario

AI is a smart and economical AC charger that is designed for EV manufacturers and real estate developers:

Series : 22kW AC Wallbox

Series : 43kW AC Wallbox

Product Features

Key benefits

- Combine technology with aesthetic
- Easy installation - saves time
- Compact design - saves space
- High quality- more reliability

Main features

- 22kW and 43kW charging available
- Flexible smart connectivity Etherent, Wi-Fi, GPRS, RFID, QR code, OCPP (optional: others)
- Ultra long life, safe & reliable
- Integrated earth leakage protection it saves extra devices
- Surge protection
- O/C, S/C, Over-temp, reverse battery connection
- Resistant to vibration
- Robust all-weather enclosure for indoor and outdoor use
- Display- 4.3" TFT touch screen operation interface
- Charge mode set up to fill automatically
- Charge mode according to electric units
- Charge according to amount and time

Product Specifications

Technical Data	22KW - JCH	43 KW - JCH
Characteristics		
nput/Output Voltage	400V AC+/-10%	200V AC+/-15%
Frequency	50Hz +/- 10%	50Hz +/- 10%
Rated Power	22 kW	43 kW
Rated Current	32 Amps	32 Amps
General Specifications		
Shell Material	Hot-dip galvanized steel	Hot-dip galvanized steel
Charging Mode	IEC61851-1 Charging mode 3	IEC61851-1 Charging mode 3
AC Plug	IEC 62196-2 AC Type 2	IEC 62196-2 AC Type 2
Display	4.3" TFT Color touch screen	4.3" TFT Color touch screen
RFID System	Mifare (Classic, DesFire EV1) or other	Mifare (Classic, DesFire EV1) or other
Communication	GPRS / Wi-Fi	GPRS / Wi-Fi
Comm Protocols	OCPP	OCPP
Place of Installation	Indoor and Outdoor	Indoor and Outdoor
Altitude	<3000m	<3000m
Protection Grade	IP54	IP54
Operating Temp	-20°C to 50 °C	-20°C to 50 °C
Storage Temp	-40°C to 70°C	-40°C to 70°C
Humidity	5% to 95% without condensation	5% to 95% without condensation
Cooling Mode	Natural cooling	Natural cooling
Length of Charging Cable	5m (optional)	5m (optional)
Dimensions (WxDxH)	280mmX120mmX400mm	280mmX207mmX1370mm
Weight	11 kg	

DC Fast Charger - 30kW - 100kW

JOMA Next Gen Power

Applicable Scenario

D3 is a intelligent AC/DC fast charger supplies a convenient human-computer interaction, its modular design facilitates equipment manufacturer and expansions, three-interface design ensure power output AC 43kW and DC 60 kW at the same time.

Applications : Highways and national roads, EV infra and operators, EV fleet (public and private), EV dealers and service providers

Series : 60kWDC Fast Charger

Technical Specifications

Power Output	DC Output Votage Running	50-500 Vdc
	Output Current	6 - 60A Max
	Power Rating	30 kW to 100kW
	Connector	CCS2 / Type 2 Socket
	Number of Connector	1 (or) 2
	Efficiency	≥90%
Power Input	Input Voltage	415V AC ± 10% 3Phase, 5 Wire AC System (3Ph+N+E)
	Input Frequency	50Hz ± 5Hz
	THD	≤ 5% @ Nominal Votage
Protection & Safety	Safety Parameters	Over Current, Under Voltage, Over Voltage, Surge Protection, Short Circuit, Over Temperature
User Interface & Control	Display	7 or 10 inch LCD Touch Screen
	Support Language	English
	Push Button	Emergency Stop Switch (Red)
	Visual Indication	Error Indicator; Presence of Input Supply, State of Charger Indicator
	User Authentication	ISO/IEC 14443A RFID/QR Code Customizable
Online Payments	Payment	Smart Card, QR/OTP/APP Server based
Communication	B/W EVSE and Vehicle	PLC (CCS2)
	B/W Charger and Central Server	Ethernet, Wi-Fi, GSM/GPS/GPRS Modem & Bluetooth
Mechanical	Ingress Protection	IP54
	Cooling	Forced Air Cooling
	Charging Cable Length	5Meters / Customizable
Environmental	Operating Temperature	-20°C to 55°C (derating from 50°C)
	Humidity (Non-Considering)	0 to 95%
	Storage Temperature	-20°C to 80°C
	Altitude	upto 3000 Meters

Product Features

Key benefits
- Combine technology with aesthetic
- Compact design - saves space
- High quality- more reliability
- Mobile unit- quickly respond

Main features
- 60kW Mobile DC fast charging available
- High degree of protection and wide output voltage
- Flexible Smart connectivity Etherent, Wi-Fi, GPRS, RFID, QR code, OCPP (optional: others)
- Integrated earth leakage protection it saves extra devices
- Surge protection
- O/C, S/C, Over-temp, reverse battery connection
- Resistant to vibration
- Display-4.3" TFT touch screen operation interface
- Charge mode set up to fill automatically
- Charge mode according to electric units
- Charge according to amount and time
- Supports CHAdeMO system interface quick charging

JCH4 Super Charger
High Power Charger CCS

Applicable Scenario

Smart D4 super charger is a high-power charger which is suitable for public charging area. The product consists of power module, internal control system, communication module and charging cable assembly. With Internet connectivity and online management technology, D4 supercharger has become the most intelligent charger.

Series : 360kW
DC Higher Power Charger

Product Features

Main Features
Powerful Potential

- PowerBOX+ 1-3 satellite options allowing for greater charging flexibility
- Single connector output (up to 360kW) and available simultaneous charging
- Combine additional PowerBOXes to increase power capacity and future-proof your investment
- Larger PowerBOXversions+ cable management systems are also available

Flexible Design

- Constant—powerAC—DC module designed for both 400V and 800Vvehicles
- OTA remote diagnostics& upgrades increase the compatibility while reducing issues
  (includes OCPP 1.6 and subsequent versions)
- Power module cassettes come !n 30kW x 6 and 60kW x 6 formats, making it compatible with 180kW and 360kW configurations
- Atx0.8x1.8 meters, our PowerBOX accommodates a 360kW convertor unit, switching unit, and cooling unit !n single, low-prod le casing

Top-Notch User Experience

- 1Min. Full—HD Touch Screen with Hi—Res Color LED interactive display
- RFID/ Remote control /Credit Card payment interfaces available
- Convenient operating range of 0.9 to 1.3 meters for all users

JCH4 Super Charger
High Power Charger CCS

Applicable Scenario

Technical Data	Satellite	PowerBox
General Specifications		
Operating Screen	15" LED HD Touch Screen	
Branding Area	19" AD Board / 19" HD Screen (Optional)	
Operating Temperature Range	-35°C to 70°C (Over 50°C Reduction output)	
Operating Humidity Range	5% to 95% Non-condensing	
IP Rating	Ip54	
IK Rating	Ik10	
Network connection	GPRS / 3G / 4G / LAN	
Authentication method	RFID / QR code / Remote command / Credit card (interface reserved)	
Communication protocol	OCPP 1.6 JSON / OCPP 2.0	
DC communication standard	EN 61851-24 / DIN 70121 / ISO 15118	
Cable length	5.5m with cable management	
Idle power consumption	30W	100W
System noise	Less than 50dB(A) at a distance of 1m	Less than 60dB(A) at a distance of 1m
EMC	Class B for residential area operating	
THD	<5%	
Distance between satellite & powerbox	Up to 100m	
Metering	AC meter with MID certificate / DC meter with PTB approval upgradable	
Safety protection	Over/undervoltage-, overload-, short circuit-, anti-access-, earth leakage-, lightning-, overheat-protection	
Dimensions (LxWxH)	490mmX600mnnX2200nnm	800mmX1000mnnX1850mm
Weight	240 kg	720 kg
DC Output		

	CCS Combo2 HPC	CCS Combo2	CHAdeMO
Max. output power range	350 kW continuos	180kW	60kW
Max. output voltage	100VDC	1000 VDC	500 VDG
Max. output Current	500A	200A	120A

AC Output		
Input Voltage range	320-530 VAC (50Hz/60Hz)	
Max. rated input current	532A	
Max. rated input power	368kW	
Power factor (full load)	>0.99% at a nominal output power	
Efficiency	Up to 96% at a nominal output power	

2 & 3 Wheeler EV Charger

Product Features

- Fast charging
- Automatic Float to Boost & Boost to Float Changeover
- Compatible for High efficiency, long life & high reliability
- Miniature size
- Multi O/P charger
- Wide I/P range
- 100% Full load Burnintest

Series : 2 Wheeler EV Charger

Series : 3 Wheeler EV Charger

Product Specifications

Technical Data	12 W			
Input Voltage	180VAC		264VAC	
Output Voltage	24V/3A	24V/6A	48V/3A	48V/6A
	24V/48V/72V/3A,		24V/48V/72V/3A	24V/48V/72V/6A
Cutoff Voltage	Adjustable cutoff voltage			
Stability of voltage & current	±10% of Ratted			
Regulation Load & Line	<1% of Ratted			
Ripple & Noise	< 1% of Ratted			
Operating Temp	8˚C - 55˚C			
Indication	Power 'on', charger 'on', Fault			
Protection	1) Over voltage protection 2) Short circuit protection 3) Over temp protection			
Efficiency	> 85%			

Joma charging solutions

Charging Station for Taxi

Residential Charging Station

Charging Solutions for big infrastructure

Charging Station for Commercial Center

Time required to charge

Household socket
approx. 11 hours

Household socket
with wallbox
approx. 4 hours

Public charging
station
approx. 3 hours

Public fast
charging station
approx. 45 minutes

Ultra-high
power charger
approx. 7 minutes

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Electrical distribution architecture

Standalone

The One or several charging stations can be connected to the same protection panel and operate independently. The protection could also be installed in the Parking station floor base. Each charging station operates independently. They are protected upstream and their consumption can be measured.
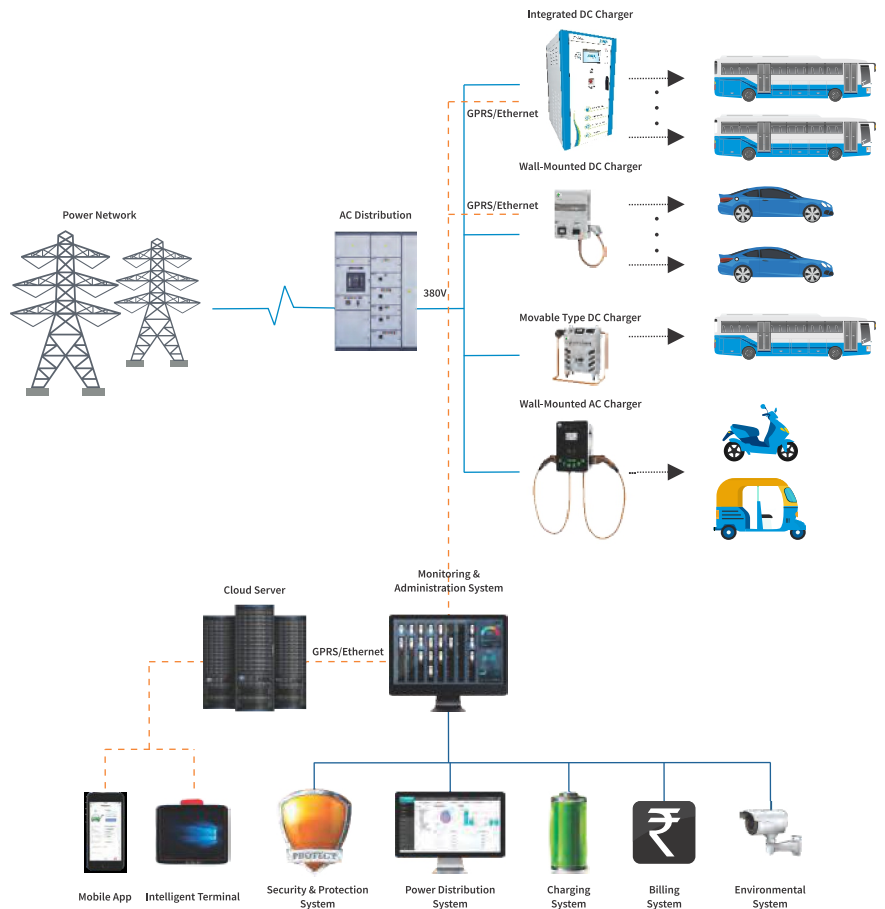
The charging stations can be connected to a supervision.

Clustered

In addition to independent charging stations features, benefit from advanced control functions:

Joma energy management

They are then controlled by a programmable logic controller and network components, GPRS modem, etc. A cluster consists of charging stations, up to 24 socket outlets. The charging stations can be connected to a supervision.

Power Network   AC Distribution   Integrated DC Charger   GPRS/Ethernet   Wall-Mounted DC Charger   GPRS/Ethernet   Movable Type DC Charger   Wall-Mounted AC Charger   380V

Cloud Server   Monitoring & Administration System   GPRS/Ethernet

Mobile App   Intelligent Terminal   Security & Protection System   Power Distribution System   Charging System   Billing System   Environmental System

EV charging software solution

Joma Charge is a feature-rich EV charging software solution that you can use to manage your EV charging network via OCPP, handle management of charging stations, partnership relations, tariffs, billing & payments, CRM, statistics and more. It also provides your customers with a convenient way to use your charging stations through a mobile app (for iOS and Android).
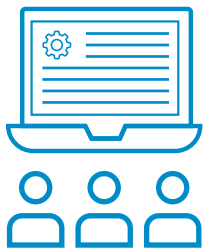
Features & Benefits

1. Asset Management
- Add and manage charging stations
- Set access rules
- Set visibility (Private/ Public)
- Monitor usage and consumption

2. CRM
- Manage user accounts
- Manage user groups for better control access and terms of usage for users
- QR code
- OCPP (optional: others)

3. Partnership Agreement
- Manage agreements with location providers, corporate and e-mobility service providers
- Setup profit-sharing
- Discounts and special terms for partners

4. Web-based Control Panel
- Accessible online with comprehensive access control
- Manage all aspects of your charging infrastructure, customer& partner relations
- Billing and payments
- View stats and rep

5. Tariff Management
- Tariffs setup based on power consumption
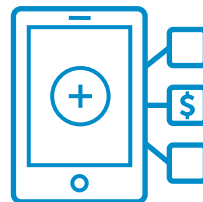- Tariff setup based on time elapsed or combination of both

6. Business Intelligence
- View usage statistics and generate and export usage reports
- Monitor network activity in real time and export historical data

7. Payments & Billing
- Accept payments from customers
- Generate receipts and reports
- Credit & debit card and voucher payments are supported out-of-the-box with further payment options to be added upon request

8. Future-proof
- Accessible online with comprehensive access control
- Manage all aspects of your charging infrastructure, customer& partner relations
- Billing and payments
- View stats and reports

e-Mobility consulting

Our experts in e-mobility and shared mobility would be happy to answer your questions. Get in touch to discuss your project and get valuable insight from our consultants for Turnkey solutions and Services.

Product Features

Solutions
    A) "Turnkey" charging station project performed by EViG0

    B) Sale of charging stations and services

Turnkey Project
    A single contact for the project team, whatever the subject, commercial or technical

Services:

1) Services to End user/Architect/Contractors
• Support on regulations

• Electrical distribution design and architectures

• Communication architectures

• Setup, tests and operation & maintain EV infrastructure

2) Services to Private or public operators:
• Technical support on charging station supervision and diagnosis

• Routine Maintenance to preserve availability

• Operating advisory services and proposal for technical improvements

Future India

MAKE IN INDIA