

CONNECTOR

CCS1

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Connector Info



Half-side View



Side View

CCS1 (Combined Charging System Type 1) is the North American standard for electric vehicle charging connectors. It integrates the Type 1 connector (SAE J1772) predominantly used in the U.S. and Canada for AC charging with two additional large pins below the Type 1 interface to support high-speed DC fast charging. This combination allows EV owners to use a single port for both slower AC Level 2 charging and rapid DC fast charging.

EV charging connector type

DC
CCS1



Socket



Plug

Key Features

- ✓ Mostly used in North America
- ✓ Supports both AC and DC charging (fast charging)
- ✓ Output current can be customized upon request

Application Scenarios



Connector Data Specification

Connector Type	CCS1
Rated Current	250A
Maximum Power	250kW
Rated Voltage	1000V
Insulation Resistance	100MΩ
Conductor Material	Copper
Shell Material	Nylon
Cable Length	Customizable
Working Humidity	-30- 50°C
Working Altitude	<3000m
Protection Grade	IP54
Flame Retardant Grade	V-0

CONNECTOR

CCS2

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Connector Info



Half-side View



Side View

CCS2 in Europe and other regions adhering to European standards. It builds on the Type 2 connector (Mennekes connector), commonly used across the European Union, adding extra pins for DC charging. This universal approach in Europe ensures that EVs can connect to the widespread AC and fast DC charging infrastructure without needing different cables.

EV charging connector type

DC
CCS2



Socket



Plug

Key Features

- ✓ Common in Europe and other regions
- ✓ Supports both AC and DC charging (fast charging)
- ✓ Output current can be customized upon request

Application Scenarios



Connector Data Specification

Connector Type	CCS2
Rated Current	250A
Maximum Power	250kW
Rated Voltage	1000V
Insulation Resistance	100MΩ
Conductor Material	Copper
Shell Material	Nylon
Cable Length	Customizable
Working Humidity	-30- 50°C
Working Altitude	<3000m
Protection Grade	IP54
Flame Retardant Grade	V-0

CONNECTOR

CHAdEMO

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Connector Info



Half-side View



Side View

CHAdEMO (Charge de Move) is a fast-charging standard developed jointly by Japanese electric vehicle manufacturers. It uses a special plug and communication protocol to support high-power DC fast charging. The charging power of the CHAdEMO standard is usually between 50kW and 100kW, but the latest CHAdEMO 2.0 specification can support up to 400 kW of charging power. The name CHAdEMO comes from the Japanese.

EV charging connector type

DC CHAdEMO



Socket



Plug

Key Features

- ✓ Developed in Japan, used globally
- ✓ Primarily for DC fast charging
- ✓ Output current can be customized upon request

Application Scenarios



Connector Data Specification

Connector Type	CHAdEMO
Rated Current	250A
Maximum Power	250kW
Rated Voltage	1000V
Insulation Resistance	100MΩ
Conductor Material	Copper
Shell Material	Nylon
Cable Length	Customizable
Working Humidity	-30- 50°C
Working Altitude	<3000m
Protection Grade	IP54
Flame Retardant Grade	V-0

CONNECTOR

NACS

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Connector Info



Half-side View



Side View

NACS(North American Charging Standard) is a universal charging connector design that aims to simplify the driver experience by providing one type of connector for Level 2 and Level 3 (DC Fast) charging stations.

This will eliminate the need for multiple connector types (SAE J1772, CHAdeMO and CSS) by standardizing the connector design. The NACS connector is currently designed for use with Tesla vehicle ports.

EV charging connector type

DC NACS



Socket



Plug

Key Features

- ✓ Developed by Tesla, now open for broader adoption
- ✓ Focused on North American market
- ✓ Output current can be customized upon request

Application Scenarios



Connector Data Specification

Connector Type	NACS
Rated Current	250A
Maximum Power	250kW
Rated Voltage	1000V
Insulation Resistance	100MΩ
Conductor Material	Copper
Shell Material	Nylon
Cable Length	Customizable
Working Humidity	-30- 50°C
Working Altitude	<3000m
Protection Grade	IP54
Flame Retardant Grade	V-0

CONNECTOR

GB/T (DC)

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Connector Info



Half-side View



Side View

GB/T charging standard, primarily the GB/T 20234, is a set of charging station standards used in China and Belarus for AC and DC fast charging of plug-in electric vehicles, known locally as "new-energy vehicles". The term "GB/T" is an abbreviation of "national standard recommended".

EV charging connector type

DC GB/T



Socket



Plug

Key Features

- ✓ Chinese recommended national standard for EV charging
- ✓ Separate connectors for AC and DC charging
- ✓ Output current can be customized upon request

Application Scenarios



Connector Data Specification

Connector Type	GB/T (dc)
Rated Current	250A
Maximum Power	250kW
Rated Voltage	1000V
Insulation Resistance	100MΩ
Conductor Material	Copper
Shell Material	Nylon
Cable Length	Customizable
Working Humidity	-30- 50°C
Working Altitude	<3000m
Protection Grade	IP54
Flame Retardant Grade	V-0

CONNECTOR

TYPE1

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Connector Info



Half-side View



Side View

The SAE J1772 connector, also known as a J Plug or Type 1 connector, is a charging standard used primarily in North America and Japan. The J1772 EV connector supports single-phase AC charging for Level 1 and Level 2 EV chargers.

AC charging
connector type

AC
Type1



Socket



Plug

Key Features

- ✓ 5-pin circular connector, single-phase AC only
- ✓ Typically used for 3.7–7.4 kW AC charging
- ✓ Widely adopted in markets such as North America and Japan

Application Scenarios



Connector Data Specification

Connector Type	Type1
Rated Current	32A
Maximum Power	7kW
Rated Voltage	240V
Insulation Resistance	100MΩ
Conductor Material	Copper
Shell Material	Nylon
Cable Length	Customizable
Working Humidity	-30- 50°C
Working Altitude	<3000m
Protection Grade	IP54
Flame Retardant Grade	V-0

CONNECTOR

TYPE2

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Connector Info



Half-side View



Side View

The Type 2 connector, also known as the Mennekes connector, is a charging standard used primarily in Europe. The type 2 connector supports single-phase and three-phase AC charging for Level 2 chargers.

AC charging connector type

AC Type2



Socket



Plug

Key Features

- ✓ 7-pin design supporting single-phase and three-phase
- ✓ The AC charging power can reach up to approximately 22 kW, delivering faster charging than Type 1
- ✓ One of the mainstream charging standards in Europe

Application Scenarios



Connector Data Specification

Connector Type	Type2
Rated Current	32A
Maximum Power	21kW
Rated Voltage	380V
Insulation Resistance	100MΩ
Conductor Material	Copper
Shell Material	Nylon
Cable Length	Customizable
Working Humidity	-30- 50°C
Working Altitude	<3000m
Protection Grade	IP54
Flame Retardant Grade	V-0

CONNECTOR

GB/T (AC)

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Connector Info



Half-side View



Side View

GB/T (AC) refers to China's standard AC charging interface (GB/T 20234.2). It uses a seven-pin design similar in shape to the European Type 2, but with different signal and pin definitions. AC chargers supply single- or three-phase AC to the vehicle, which the onboard charger converts to DC to charge the battery.

AC charging connector type

AC GB/T



Socket



Plug

Key Features

- ✓ Designed for residential and public parking
- ✓ Uses simple low-voltage pilot signaling for basic charging control and current negotiation
- ✓ Similar in appearance to Type 2, but with different pin layout and no compatibility

Application Scenarios



Connector Data Specification

Connector Type	GB/T (AC)
Rated Current	32A
Maximum Power	21kW
Rated Voltage	380V
Insulation Resistance	100MΩ
Conductor Material	Copper
Shell Material	Nylon
Cable Length	Customizable
Working Humidity	-30- 50°C
Working Altitude	<3000m
Protection Grade	IP54
Flame Retardant Grade	V-0