

# CHARX T2HBI12-DC200-6,0M2 - Vehicle charging inlet



1497350

<https://www.phoenixcontact.com/us/products/1497350>

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CHARX connect universal, DC CCS Typ 2, Vehicle charging inlet, up to 500 A in Boost mode, 200 A permanent, 1000 V DC, Single-core wires connected at one end, length: 6 m, locking actuator: 12 V, 4-pos., Front and rear mounting, M6, housing: black, for charging with direct current (DC), IEC 62196-2, IEC 62196-3, A protective cap is supplied as standard for the DC contacts.

The figure shows a version of the product

## Product description

Vehicle charging inlet for charging with direct current (DC), compatible with type 2 CCS vehicle charging connectors (EVSE), for installation in electric vehicles (EV).

## Your advantages

- Complete product range
- Uniform, space-saving dimensions for the installation space and the screw connection points of all Phoenix Contact vehicle charging inlets
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- Integrated interlock during charging
- Manual emergency release of the locking actuator
- Protected and sealed against dirt and water with a high degree of protection

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1497350       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | XWCAID        |
| GTIN                                 | 4063151948290 |
| Weight per piece (including packing) | 13,850 g      |
| Weight per piece (excluding packing) | 6,320 g       |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Vehicle charging inlet  |
| Product family      | CHARX connect universal |
| Charging standard   | DC CCS Typ 2            |
| Charging mode       | Mode 4                  |
| Customer variations | On request              |

### Electrical properties

#### Charging power and current (DC charging)

|                          |          |
|--------------------------|----------|
| Type of charging current | DC       |
| Charging current         | 200 A DC |
| Charging power           | 200 kW   |
| Rated voltage            | 1000 V   |

#### Charging power and current (DC charging in Boost Mode)

|                          |   |
|--------------------------|---|
| Type of charging current | DC Boost Mode   |
| Charging current         | up to 500 A DC  |
| Charging power           | up to 500 kW  |
| Rated voltage            | 1000 V  |
| Note                     | The specifications refer to charging in Boost Mode and are dependent on ambient conditions. For further details, see the packing slip in the download area. |

#### Pin assignment (Power contacts)

|                               |  |
|-------------------------------|--|
| Note on the connection method | Crimp connection, cannot be disconnected |
| Number                        | 3 (PE, DC+, DC-)                         |
| Rated voltage                 | 1000 V DC                                |
| Rated current                 | 200 A DC                                 |

#### Pin assignment (Signal contacts)

|                               |   |
|-------------------------------|---|
| Note on the connection method | Crimp connection, cannot be disconnected  |
| Type of signal transmission   | Pulse width modulation with modulated Powerline communication in accordance with ISO/IEC 15118 / DIN SPEC 70121 |
| Number                        | 2 (CP, PP)  |
| Rated voltage                 | 30 V AC   |
| Rated current                 | 2 A   |
| Coding                        | 4.7 k $\Omega$ (between PE and PP)  |
| Insulation resistance         | > 200 M $\Omega$  |

#### Locking actuator

|  |                                |
|--|--------------------------------|
| Locking actuator                         | 12 V, 4-pos.<br>Right position |
| Possible power supply range at the motor | 9 V ... 16 V                   |

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|                                       |                     |
|---------------------------------------|---------------------|
| Maximum voltage for locking detection | 12 V                |
| Typical motor current for locking     | 0.25 A              |
| Reverse current of the motor          | max. 1.5 A          |
| Max. dwell time with reverse current  | 1 s                 |
| Recommended adaptation time           | 600 ms              |
| Pause time after entry or exit path   | 3 s                 |
| Service life insertion cycles         | > 10000 load cycles |
| Lock recognition                      | available           |
| Mechanical emergency release          | available           |
| Ambient temperature (operation)       | -40 °C ... 40 °C    |

## Temperature sensors (Pt 1000)

|                       |                               |
|-----------------------|-------------------------------|
| Sensor type           | Pt 1000                       |
| Standards/regulations | DIN EN 60751                  |
| Attachment point      | 2 sensors for the DC contacts |

## Dimensions

### Vehicle charging inlet

|                     |           |
|---------------------|-----------|
| Dimensional drawing |           |
| Width               | 108 mm    |
| Height              | 140.25 mm |
| Depth               | 133.5 mm  |

### Bore dimensions

|        |           |
|--------|-----------|
| Width  | 117.65 mm |
| Height | 90 mm     |
| Depth  | 117.65 mm |

## Material specifications

|                            |              |
|----------------------------|--------------|
| Color (Housing)            | black (9005) |
| Color (Mating face)        | black (9005) |
| Material (Housing)         | Plastic      |
| Material (Contact surface) | Silver       |

## Cable/line

|              |  |
|--------------|--|
| Cable length | 6 m                                    |
| Cable type   | Single-core wires connected at one end |

### Single-core wires for DC

|              |     |
|--------------|-----|
| Cable length | 6 m |
|--------------|-----|

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|                         |                        |
|-------------------------|------------------------|
| Cable structure         | 2 x 70 mm <sup>2</sup> |
| Single wire, material   | Silicone               |
| Single wire, color      | OG                     |
| External cable diameter | 17.90 mm ±0.3 mm       |
| Cable resistance        | ≤ 0.259 Ω/km           |

## Single-core wire for PE

|                         |                        |
|-------------------------|------------------------|
| Cable length            | 6 m                    |
| Cable structure         | 1 x 25 mm <sup>2</sup> |
| Single wire, material   | Silicone               |
| Single wire, color      | GN/YE                  |
| External cable diameter | 8.60 mm ±0.1 mm        |
| Cable resistance        | ≤ 0.743 Ω/km           |

## Single-core wires for locking actuator

|                         |                            |
|-------------------------|----------------------------|
| Cable length            | 1.5 m                      |
| Cable structure         | 4 x 0.5 mm <sup>2</sup>    |
| Single wire, material   | PVC                        |
| Single wire, color      | BU/RD, BU/GN, BU/YE, BU/BN |
| External cable diameter | 1.60 mm ±0.20 mm           |
| Cable resistance        | ≤ 37.1 Ω/m                 |

## Single-core wires for Pt 1000 temperature sensors

|                         |                         |
|-------------------------|-------------------------|
| Cable length            | 1 m                     |
| Cable structure         | 3 x 0.5 mm <sup>2</sup> |
| Single wire, material   | PVC                     |
| Single wire, color      | BN<br>GN<br>YE          |
| External cable diameter | 1.60 mm ±0.20 mm        |
| Cable resistance        | ≤ 37.1 Ω/m              |

## Single-core wires for communication

|                         |                         |
|-------------------------|-------------------------|
| Cable length            | 1 m                     |
| Cable structure         | 2 x 0.5 mm <sup>2</sup> |
| Single wire, material   | PVC                     |
| Single wire, color      | BK<br>WH                |
| External cable diameter | 1.60 mm ±0.20 mm        |
| Cable resistance        | ≤ 37.1 Ω/m              |

## Mechanical properties

### Mechanical data

|                             |         |
|-----------------------------|---------|
| Insertion/withdrawal cycles | > 10000 |
| Insertion force             | < 100 N |

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|                  |         |
|------------------|---------|
| Withdrawal force | < 100 N |
|------------------|---------|

## Environmental and real-life conditions

### Ambient conditions

|   |  |
|---|--|
| Degree of protection (Vehicle charging inlet) | IP55 (plugged in; when plugged in and ready to operate, the degree of protection is only ensured if both plug-in components are original products from Phoenix Contact or suitable standard-compliant products)<br>IP67 (Inner area of vehicle charging inlet) |
| Ambient temperature (operation)               | -40 °C ... 40 °C (Max. 60 °C, current reduction required. Observe the limit value for the DC contact temperature of 90 °C.)  |
| Ambient temperature (storage/transport)       | -40 °C ... 85 °C   |
| Altitude                                      | 4000 m (above sea level)   |

## Standards and regulations

### Standards

|                       |                            |
|-----------------------|----------------------------|
| Standards/regulations | IEC 62196-2<br>IEC 62196-3 |
|-----------------------|----------------------------|

## Mounting

|  |   |
|--|---|
| Mounting type                            | Front and rear mounting (0 to 90 degree frontal inclination possible) |
| Mounting hole diameter                   | 6.70 mm (ø)   |
| Fixing screws                            | M6  |
| Screws included in the scope of delivery | none  |

# CHARX T2HBI12-DC200-6,0M2 - Vehicle charging inlet

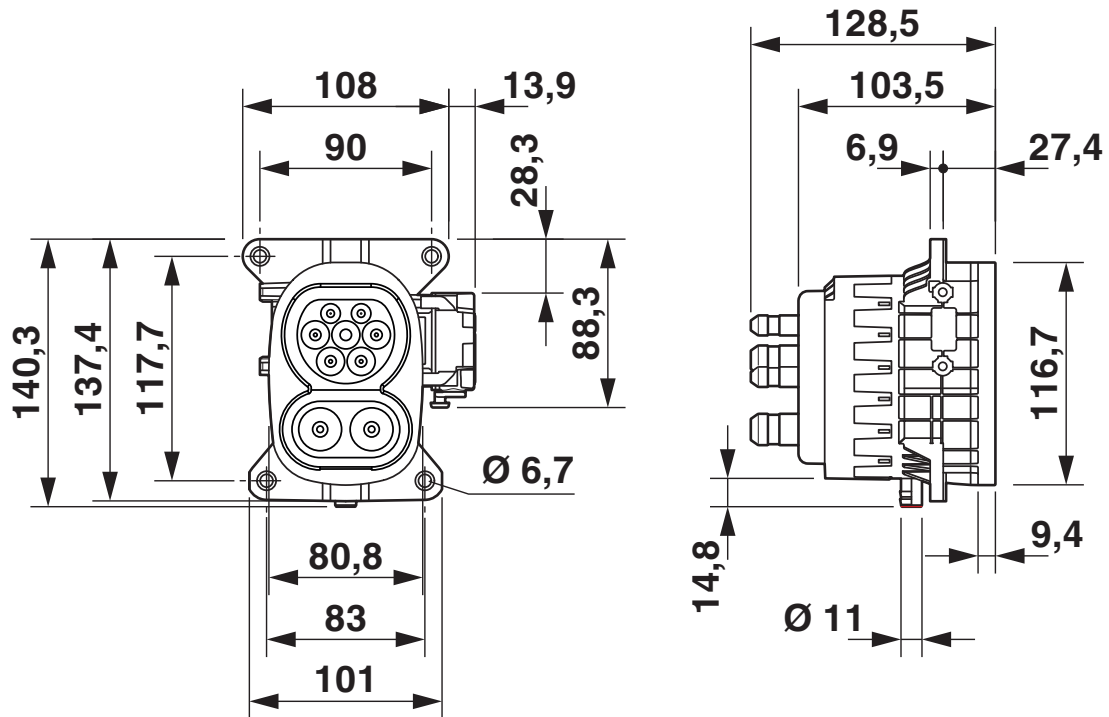


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## Drawings

Dimensional drawing



Dimensional drawing

Connection diagram



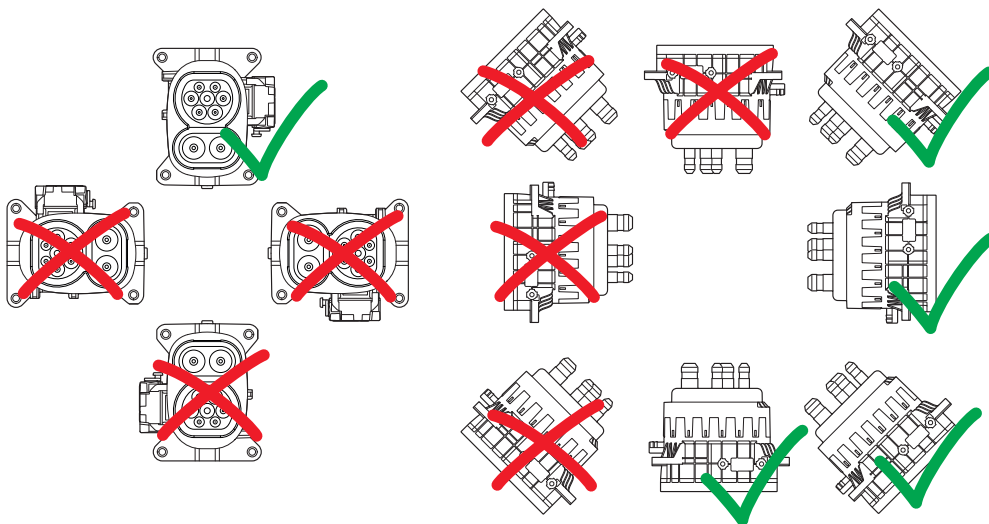
Pin assignment of vehicle charging inlets

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## Connection diagram

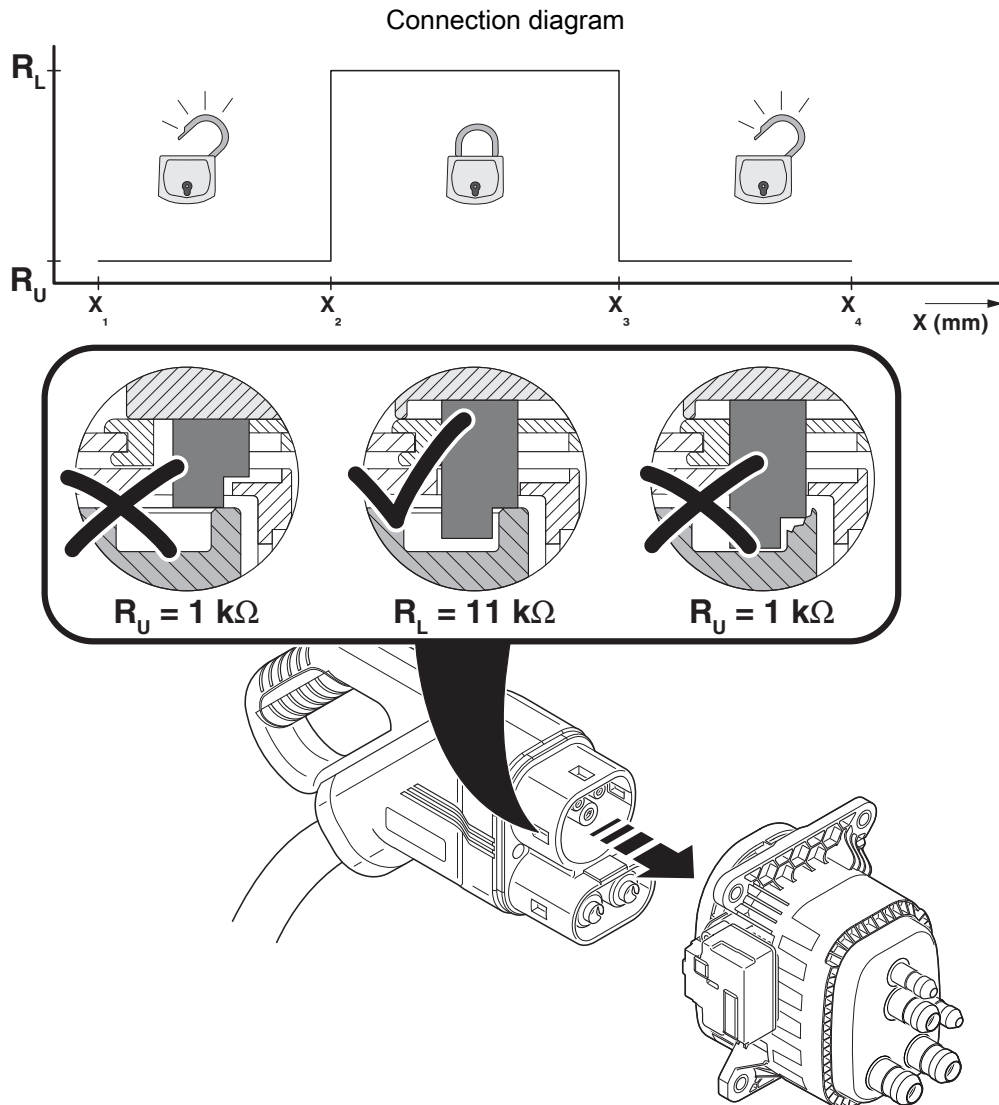


## Installation positions

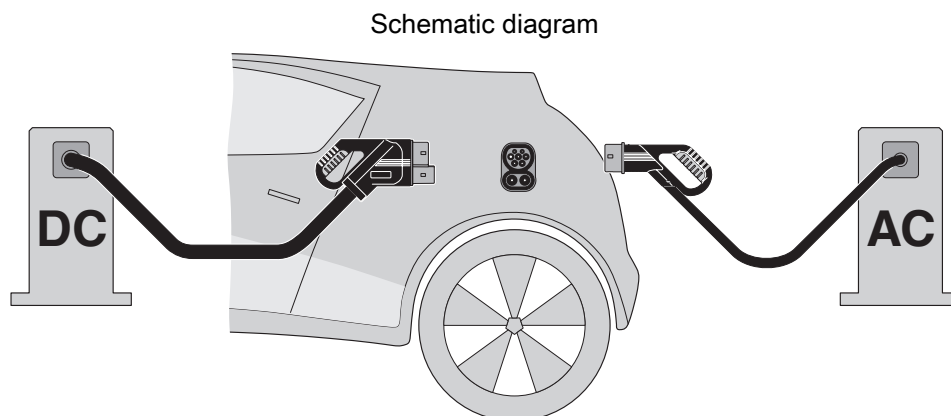
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Detection for Vehicle Connector



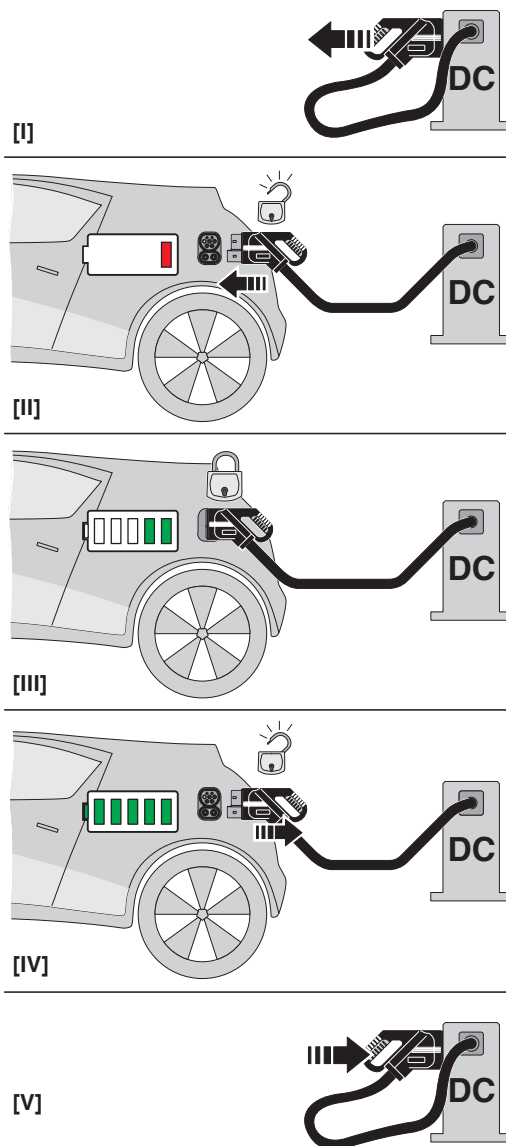
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

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Schematic diagram



Operating instructions

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Schematic diagram



Block diagram of the locking actuator

Schematic diagram



Temperature sensor technology resistance range at AC contacts

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Locking states of the locking actuator

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Diagram



Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27144706 |
| ECLASS-15.0 | 27144706 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002898 |
|-----------|----------|

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## Environmental product compliance

### EU RoHS

|   |              |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes          |
| Exemption                               | 6(c), 7(c)-I |

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |   |
|-------------------------------------|---|
| REACH candidate substance (CAS No.) | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)(CAS: 15571-58-1) |
|                                     | Lead(CAS: 7439-92-1)  |
|                                     | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)   |
| SCIP                                | 73166685-be53-476d-969f-29594e1745af  |

### EF3.1 Climate Change

|         |              |
|---------|--------------|
| CO2e kg | 78.3 kg CO2e |
|---------|--------------|

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