

# CHARX GBH4I-DC125-2,0M - Vehicle charging inlet



1271834

<https://www.phoenixcontact.com/in/products/1271834>

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CHARX connect universal, DC GB/T, Vehicle charging inlet, up to 250 A in Boost mode, 125 A Permanent, 1000 V DC, Single wires, length: 2 m, Front and rear mounting, M6, housing: black, for charging with direct current (DC), GB/T 20234.3-2015, A protective cap is supplied as standard for the DC contacts.

## Product description

Vehicle charging inlets for charging with direct current (DC), compatible with GB/T vehicle charging connectors (EVSE), for installation in electric vehicles (EV).

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1271834       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | XWC           |
| Product key                          | XWCAIG        |
| GTIN                                 | 4063151463151 |
| Weight per piece (including packing) | 3,000 g       |
| Weight per piece (excluding packing) | 3,000 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

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## Technical data

### Notes

|         |                                                               |
|---------|---------------------------------------------------------------|
| General | A protective cap is supplied as standard for the DC contacts. |
|---------|---------------------------------------------------------------|

### Product properties

|                     |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------|
| Product type        | Vehicle charging inlet                                                              |
| Product family      | CHARX connect universal                                                             |
| Application         | for charging with direct current (DC)<br>for installation in electric vehicles (EV) |
| Charging standard   | DC GB/T                                                                             |
| Charging mode       | Mode 4                                                                              |
| Customer variations | On request                                                                          |

### Electrical properties

|                               |                                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Note on the connection method | Crimp connection, cannot be disconnected                                                                                                           |
| Coding                        | 1 k $\Omega$ (between PE and CC1)                                                                                                                  |
| Temperature measurement       | DC contacts: 2x PT1000 (DIN EN 60751)                                                                                                              |
| Type of charging current      | DC                                                                                                                                                 |
| Charging power                | 125 kW                                                                                                                                             |
| Charging current              | 125 A DC                                                                                                                                           |
| Type of charging current      | DC Boost Mode                                                                                                                                      |
| Charging power                | up to 250 kW (Boost Mode, depending on the ambient conditions. For detailed information, see the packing slip in the download area for this item.) |
| Charging current              | up to 250 A DC                                                                                                                                     |

### Power contact

|               |                  |
|---------------|------------------|
| Number        | 3 (DC+, DC-, PE) |
| Rated voltage | 1000 V DC        |
| Rated current | 125 A DC         |

### Signal contact

|               |                              |
|---------------|------------------------------|
| Number        | 6 (S+, S-, A+, A-, CC1, CC2) |
| Rated voltage | 30 V AC                      |
| Rated current | 2 A                          |

### Temperature sensors (Pt 1000)

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

### Locking actuator

|                  |                          |
|------------------|--------------------------|
| Locking actuator | without locking actuator |
|------------------|--------------------------|

## Dimensions

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|        |       |
|--------|-------|
| Width  | 72 mm |
| Height | 72 mm |
| Depth  | 72 mm |

## Material specifications

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

## Cable/line

|              |              |
|--------------|--------------|
| Cable length | 2 m          |
| Cable type   | Single wires |

### Single-core wires for DC

|                         |                        |
|-------------------------|------------------------|
| Cable length            | 2 m                    |
| Cable structure         | 2 x 35 mm <sup>2</sup> |
| Single wire, material   | Silicone               |
| Single wire, color      | OG                     |
| External cable diameter | 14.10 mm ±0.3 mm       |
| Cable resistance        | ≤ 0.527 Ω/km           |

### Single-core wire for PE

|                         |                        |
|-------------------------|------------------------|
| Cable length            | 2 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 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                      |
|                         | GN                      |
|                         | YE                      |
| External cable diameter | 1.60 mm ±0.20 mm        |

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|                                     |                         |
|-------------------------------------|-------------------------|
| 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                      |
|                                     | 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 |
| 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 ensued if both plug-in components are original products from Phoenix Contact or suitable standard-compliant products) |
|                                               | IP67 (Inner area of vehicle charging inlet)                                                                                                                                                                    |
| Ambient temperature (operation)               | -40 °C ... 40 °C (60°C, maximum (current reduction required, observe the DC contact temperature limit value of 90°C))                                                                                          |
| Altitude                                      | 4000 m (above sea level)                                                                                                                                                                                       |

## Standards and regulations

### Standards

|                       |                   |
|-----------------------|-------------------|
| Standards/regulations | GB/T 20234.3-2015 |
|-----------------------|-------------------|

## 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                                                                  |

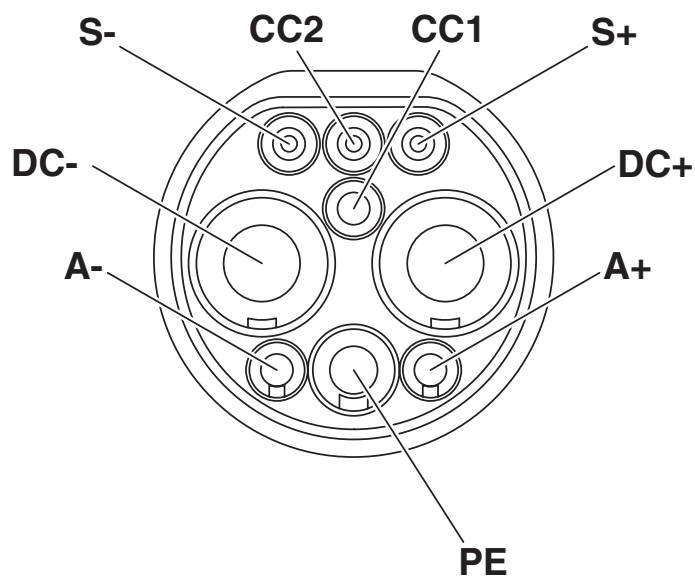
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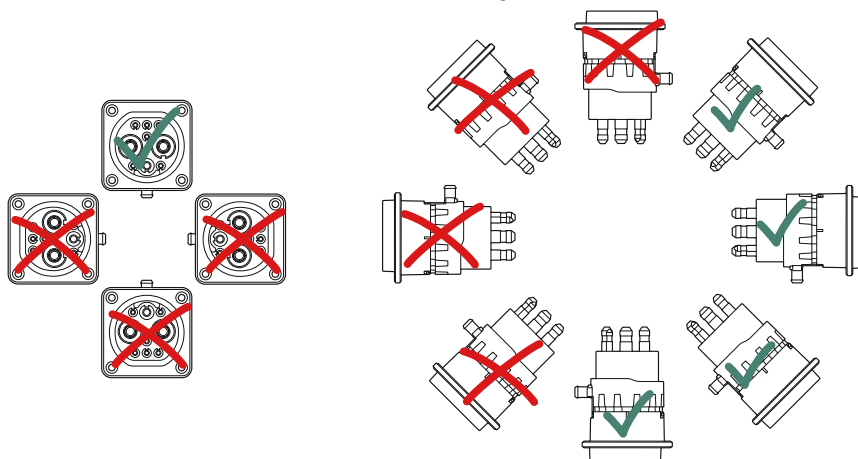
## Drawings

Connection diagram



Pin assignment of vehicle charging inlets

Connection diagram



Installation positions

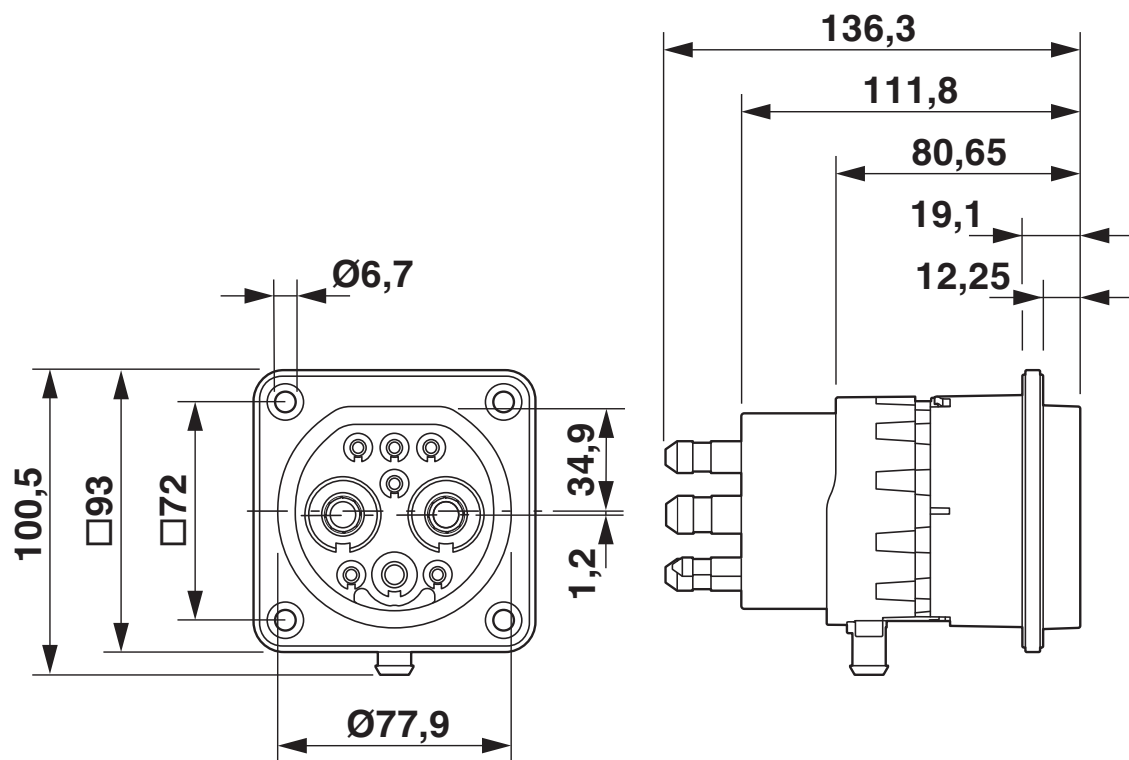
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Dimensional drawing



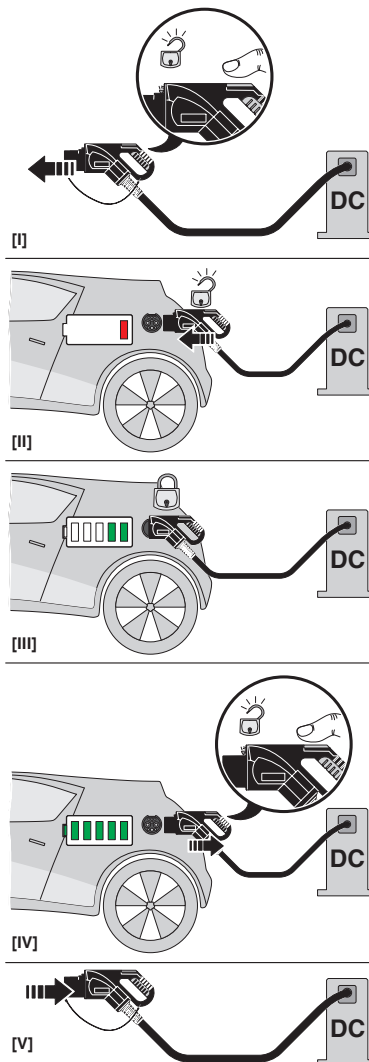
Dimensional drawing

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Schematic diagram



Operating instructions

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27144706 |
| ECLASS-12.0 | 27144706 |
| ECLASS-13.0 | 27144706 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002898 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121800 |
|-------------|----------|



## Environmental product compliance

### EU RoHS

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

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-10                                                                                                                                                                                                                           |
|                                        | 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)                                                                                    |
| SCIP                                | cc8bce8d-5315-4728-b0fb-4a22ef1382c5                                                                    |