

# EVlink™ Pro DC 120-150-180 kW



**EVlink DC Pro DC 120 – 150 - 180 kW charging stations are able to charge an electric vehicle in less than 30 minutes.**

The range covers a large variety of needs with a choice of either, per station:

- Option for payment terminal
- Option for range of output cable
- Option for Eichrecht certification

Pro DC 120 – 150 – 180 kW with 2 vehicle connectors is capable to charge one vehicle at full power or simultaneously two vehicles with dynamic power allocation. For instance, to charge one vehicle at 120 kW while charging another one at 60 kW at the same time.

## Easy to install

- Indoor or outdoor
- Floor mounted
- Installation in less than 2 hours (when supply cable is already installed)

## Mechanical and environment features

- Degree of protection: IP55
- Degree of mechanical protection: IK10 – IK08 for the screen
- Operating temperature: -30°C / +55°C (with derating above 50°C)
- Storage temperature: -40°C to 70°C
- Operating altitude: 2000 m max.
- Relative humidity: 5% to 95%
- Housing corrosion protection C4M
- Charge interrupt button
- Accessible to disable people

## Access control modes

- Free Access
- User authentication through:
  - RFID or NFC badge
    - NFC 13,56 MHz reader compatible with type 1, 2, 4 and 5 badges
    - RFID reader:
      - conforming to ISO/CEI 14443 A & B and ISO/CEI 15693 protocols
      - compatible with Mifare Ultralight, Mifare Classic, Mifare Plus
  - Auto-charge (EV MAC address)
  - QR code for CPO application
  - Embedded payment terminal

## Services

- Worldwide Customer Care Centre
- Additional 1- or 3-years Warranty Extension
- Onsite commissioning support
- Services Plan
- Schneider Electric manufactured Spare parts
- Advanced training
- Worldwide network of Schneider Electric services representatives providing on-site installation, commissioning, and maintenance services



RoHS compliant Reach compliant



## Standards

EV international standard: EN 61851-1 Ed. 3 IEC/ EN 61851-23 – Ed. 1

EV connector international standard: IEC/EN IEC62196-1 & IEC62196-3

Immunity for industrial environment: EN 61000-6-2  
Emission for industrial environment: EN 61000-6-4 EMC for industrial environment: Class A.

Radio certification

RFID/NFC: EN 300 330 V2.1.1

4G: EN 301 908 -13 V13.1.1

Wi-Fi: EN 300 328 V2.2.2 - EN 301 893

EMC radio Equipment

EN 301 489-1 V2.2.0

RFID/NFC: EMC EN 301 489-3 V2.1.1

4G: EMC EN 301 489-52 V1.1.0

Wi-Fi: EMC EN 301 489-17 V2.1.1

EVlink Pro DC 120 – 150 – 180 kW charging stations are recommended for vehicle depot and traffic application.

## Characteristics



EVD1S120TBB  
EVD1S150TBB  
EVD1S180TBB



EVD1S120TBCC  
EVD1S150TBCC  
EVD1S180TBCC  
EVD1S120TBCC-G  
EVD1S150TBCC-G  
EVD1S180TBCC-G



EVD1S120TBBC7  
EVD1S150TBBC7  
EVD1S180TBBC7  
EVD1S120TBBC7-G  
EVD1S150TBBC7-G  
EVD1S180TBBC7-G

### Power supply network and charging mode

- Power supply: 380 - 400 V - 415 Vac +/- 10% 50/60 Hz
- Poles description: L1+L2+L3+N+PE

### Direct current charging (all charging stations)

- Charging in Mode 4 (IEC 61851-23)
- Charging power:
  - CCS Combo 2 - 120 – 150 – 180 kW
  - CHAdeMO - 60 kW
- Charging voltage/current:
  - CCS Combo 2 - 150 to 1 000 VDC / 300 A Max
- Standby power: 90 W
- Protection against overheating, temperature regulated
- Cable range: 3.6 m with cable management, 7.5 m without cable management
- Efficiency 94.5% at nominal output power
- Power Factor  $\geq 0.99$  at nominal output power
- THDi  $\leq 5\%$  at nominal output power
- Acoustic noise: Variable under load: 0 dB - 65 dB at 1 m in front of the charger

### Embedded protection and metering

- MCB
- RCD
- SPD
- Metering: DC Meter class 1 (1% accuracy at full scale) – Compliant with French DC meter regulation
- Eichrecht compliant

### Diagram of the earthing system

- TT, TN-S, TN-C-S
- IT (Compatible IT with additional isolating transformer)

### Versatile connection to a supervision

- Ethernet
- Wireless 4G modem
- Wi-Fi
- OCPP 1.6Json Smart Charging interface with OCA certification
- ISO15118 / DIN 70121
- LAN/TCP IP protocol

### User interfaces

- 10-inch touch screen (multi-language support: English, French, German, Norwegian, Spanish, Italian, Danish, Vietnamese, Ukrainian...) Additional languages to be confirmed with your local Schneider Electric sales representative
- Multi-color LED for status indication for each vehicle connector

### Sensors

- Humidity sensor
- Door sensor
- Water ingress sensor
- Tilt sensor

### Dimensions (cabinet with Cable management)

H 2202 x W 1050 x D 982 mm ; H 86.69 x W 41.34 x D 38.67 In.

### Dimensions (cabinet without Cable management)

H 2103 x W 833 x D 963 mm ; H 83,86 x W 32.80 x D 37,92 In.

# EVlink™ Pro DC 120-150-180 kW

## Charging station references

| EVlink Pro DC 120-150-180 W |                           |                           |                             |                          |             |                  |                  |           |
|-----------------------------|---------------------------|---------------------------|-----------------------------|--------------------------|-------------|------------------|------------------|-----------|
| Power                       | Connector(s)              | References <sup>(1)</sup> | Weight without power module | Weight with power module | Cable range | Cable management | Payment terminal | Eichrecht |
| 120 kW DC                   | CCS Combo 2 + CCS Combo 2 | EVD1S120TBB               | ~470 kg / 1037 lb           | ~530 kg / 1168 lb        | 3.6m        | Yes              | No               | No        |
|                             |                           | EVD1S120TBBC7             | ~451 kg / 995 lb            | ~511 kg / 1127 lb        | 7.5m        | No               | No               | No        |
|                             |                           | EVD1S120TBBC              | ~470 kg / 1037 lb           | ~530 kg / 1168 lb        | 3.6m        | Yes              | Yes              | No        |
|                             |                           | EVD1S120TBBC-G            | ~470 kg / 1037 lb           | ~530 kg / 1168 lb        | 3.6m        | Yes              | Yes              | Yes       |
|                             |                           | EVD1S120TBBC7-G           | ~451 kg / 995 lb            | ~511 kg / 1127 lb        | 3.6m        | No               | No               | Yes       |
| 150 kW DC                   | CCS Combo 2 + CCS Combo 2 | EVD1S150TBB               | ~470 kg / 1037 lb           | ~545 kg / 1201 lb        | 3.6m        | Yes              | No               | No        |
|                             |                           | EVD1S150TBBC7             | ~451 kg / 995 lb            | ~526 kg / 1160 lb        | 7.5m        | No               | No               | No        |
|                             |                           | EVD1S150TBBC              | ~470 kg / 1037 lb           | ~545 kg / 1201 lb        | 3.6m        | Yes              | Yes              | No        |
|                             |                           | EVD1S150TBBC-G            | ~470 kg / 1037 lb           | ~545 kg / 1201 lb        | 3.6m        | Yes              | Yes              | Yes       |
|                             |                           | EVD1S150TBBC7-G           | ~451 kg / 995 lb            | ~526 kg / 1160 lb        | 7.5m        | No               | No               | Yes       |
| 180 kW DC                   | CCS Combo 2 + CCS Combo 2 | EVD1S180TBB               | ~470 kg / 1037 lb           | ~560 kg / 1235 lb        | 3.6m        | Yes              | No               | No        |
|                             |                           | EVD1S180TBBC7             | ~451 kg / 995 lb            | ~541 kg / 1193 lb        | 7.5m        | No               | No               | No        |
|                             |                           | EVD1S180TBBC              | ~470 kg / 1037 lb           | ~560 kg / 1235 lb        | 3.6m        | Yes              | Yes              | No        |
|                             |                           | EVD1S180TBBC-G            | ~470 kg / 1037 lb           | ~560 kg / 1235 lb        | 3.6m        | Yes              | Yes              | Yes       |
|                             |                           | EVD1S180TBBC7-G           | ~451 kg / 995 lb            | ~541 kg / 1193 lb        | 7.5m        | No               | No               | Yes       |

(1) References to be defined and local availability to be checked by Schneider Electric front offices.

## Current information and protections

| Current information and protections to use with EVlink Pro DC 120 - 150 - 180 kW |                                    |                             |            |            |
|--|------------------------------------|-----------------------------|------------|------------|
| Current  |                                    |                             |            |            |
| Power  |                                    | 120 kW                      | 150 kW     | 180 kW     |
|  | Rated current                      | 193 A                       | 242 A      | 291 A      |
|  | Max. current                       | 214 A                       | 268 A      | 323 A      |
| Electrical protection  |                                    |                             |            |            |
|  | Circuit breaker (overcurrent)      | 3P+N or 4P                  | 3P+N or 4P | 3P+N or 4P |
|  | References                         | C25F4TM250* or C25F44V2501* | C40F42D400 | C40F42D400 |
|  | Optional RCD protection (VigiPact) | -                           | LV432465   | LV432465   |

\*Optional RCD protection included.

Note: if there is plan to upgrade later (from 120 to 150 kW or 150 to 180kW...) already consider the protection sizings for DC 180kW.