EV Charging Solution

# DC Charger / SLIM 100

- 100 kW fast charging up to 97 % efficiency
- Compact footprint for space critical applications
- User-friendly design, accessible to everyone
- Integrated credit card payment solution and RFID user identification
- Supports up to 920 Vdc
- Full accessibility according DIN 18040

Commercial Areas | Parking | Service Station | Logistics Company | Traffic Hub

# Forward-Looking EV Infrastructure

## Address the challenges of next generations EVs with the SLIM 100

The SLIM 100 offers a maximum power output of 100 kW and includes rectifiers with 97 % power efficiency. It provides simultaneous charging of up to three vehicles and offers the convenience of both DC and AC charging.

With its ability to provide 100 kW of power in one cabinet, it is an ideal solution for space critical applications, as its footprint is 55 % smaller than other products that offer the same level of power. This makes it well-suited to commercial applications, parking lots, and urban traffic hubs where installation space can be limited.


## Application Scenario

## Feature Highlights

97% ↑

### 100kW fast charging up to 97 % efficiency

- 2 x 50 kW simultaneous DC charging
- Charge up to three vehicles simultaneously
- Up to 920 $V_{DC}$ high voltage charging supports current and future EVs
- Dynamic load distribution minimizes the charging time
- 97 % power efficiency on rectifier level

55%

### Compact footprint for space critical applications

- Small footprint (0.9 m x 0.44 m / 1.6 m)
- 55 % smaller footprint and 62 % smaller volume than same level chargers
- Weighing only 230 kg, no cranes needed during transportation and installation

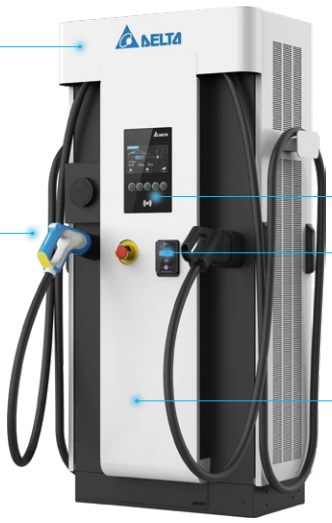
### User-friendly design, accessible to everyone

- RFID and optional credit card authentication
- Accessibility according to DIN 18040 offers barrier-free access


## Product at a Glance

**Network Connectivity**
Ethernet, Cellular 2G / 3G / 4G

**Charging Standard**
- CCS up to 100 kW
- CHAdeMO up to 62.5 kW
- AC Type 2 socket up to 22 kW
- Choice of plug standard




**Accessibility**
Compliance to DIN 18040

**User Authentication**
Credit card, RFID reader, Autocharge, Prepared for ISO 15118-2

**Protection**
IP55, IK10

# Specifications

| Model Name | SLIM 100 | |
|---|---|---|
| **Input** | | |
| AC Connection | 3-Phase, L1, L2, L3, N, PE, Dual AC feed | |
| AC Voltage | 400 $V_{RMS}$ (L- L) ± 10 % | |
| Frequency | 50 / 60 Hz | |
| Nominal Current | 203 $A_{RMS}$ at maximum output power | |
| Power Factor / THDu | 0.99 / 1 % | |
| Mains Terminal | Screw terminal / Terminal blocks | |
| Transient OVP | Class II / C protection | |
| **Output** | | |
| DC Output Voltage Range | 200 V to 920 $V_{DC}$ | |
| Maximum Current | 250 $A_{DC}$ at 400 $V_{DC}$ | |
| Maximum Power | 100 $kW_{DC}$ | |
| Cable Length / Reach Distance | 5 m / 4.6 m  3.5 m /3.1 m | |
| Protection | Over current, Under voltage, Over voltage, Short circuit, Ground fault and Isolation monitoring | |
| **User Interface & Control** | | |
| Display | 7 inch LCD | |
| Supported Languages | English (Up to 4 additional languages available on request) | |
| Push Button | 1 emergency stop button (option) | |
| Keypad | 5 buttons | |
| Local Authentification | RFID and NFC Credit card terminal option, Autocharge | |
| Network Interface | Ethernet, Cellular (2G / 3G / 4G) | |
| Protocol | Back-end system integration with OCPP 1.5 and 1.6 (HW readiness for OCPP 2.0)<br>Modbus TCP for load management / energy management system integration | |
| **Environmental** | | |
| Operating Temperature | -25 ºC to +50 ºC | |
| Storage Temperature | -40 ºC to +80 ºC | |
| Humidity | < 95% relative humidity, non-condensing | |
| Altitude | Up to 2000 m | |
| **Mechanical** | | |
| Ingress Protection | IP55 | |
| Enclosure Protection | IK10 on the enclosure, IK08 on the display (according to IEC 62262) | |
| Cooling | Forced air | |
| Dimension (W x H x D) | 892 × 1616 × 444 mm | |
| Weight * | 230 kg* | |
| **Regulation** | | |
| Certificate | IEC 61851-1, IEC 61851-22, IEC 62479, IEC 61851-23 | |
| EMC | EN 55011, IEC 61851-21-2 | |
| Accessibility | DIN 18040 | |
| **DC Charging Points** | **CCS** | **CHAdeMO** |
| Rating cable and Connector | 250 $A_{DC}$ | 125 $A_{DC}$ / 500 $V_{DC}$ |
| Compliance | IEC 61851-23 / -24, IEC 62196-3, DIN 70121<br>Prepared for ISO 15118-2 | IEC 61851-23 / -24, JEVS G 105, Rev. 1.2 compliant |
| **AC Charging Point** | | |
| Nominal AC Voltage | 400 $V_{RMS}$ | |
| At 22 kW Charging Point | 3 × 32 $A_{RMS}$ at 22 kW | |
| Protections | RCD Type B 30 mA (compliant to IEC 62955) | |
| Compliance AC Socket 22kW | IEC 62196-2 Mode 3, Type 2 | |

*The weight of the unit may vary based on configuration. Dimension and weight including charging connectors, subject to variants. Product outlook depends on configuration. Specifications are subject to change without notice.

More information

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