



Multi - Vehicle Ultra - Fast Charging Solution

DC Charger / UFC 500

- 500 kW for public & heavy duty vehicle charging
- 2 x 250 kW power for simultaneous EV charging
- Integrated credit card payment solution and RFID user identification
- Non-liquid cooled high power CCS2 cable (500 A)
- Full accessibility according to DIN 18040



Fast Charging
Corridors



Parking



Service
Station



Logistics
Fleet



Traffic
Hub



High Power Compact Charger

Unleashing High-Power Charging Innovation for Maximum Efficiency

Delta's UFC 500 platform offers the convenience of a single charging station with the flexibility to charge one vehicle up to 460 kW or two vehicles simultaneously up to 250 kW DC each. The platform is scalable and can be initially equipped with less power modules and upgraded to full capacity in a later stage that the investment is sustainable for entire life cycle.

For large charging parks & fleet applications facing grid connection challenges or the integration of high power charging in a building context such as industry, logistic center., additional system components such as PV inverters, energy storage, energy management system can be combined on a project base.



Application Scenario

Charging Network

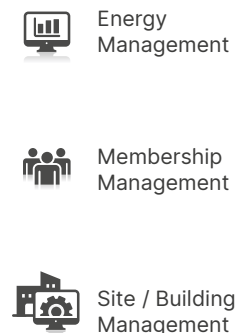


Backend System

DeltaGrid® EV Management System



Applications



... and more

Feature Highlights



Efficient Charging Service

- 500kW for public & heavy duty vehicle charging
- 2 x 250kW power for simultaneous charging
- >96% Power Efficiency
- 500A non-liquid cooled high power CCS2 cable
- Supports up to 920 VDC



Complete System Integration

- Network Connectivity
- Backend Compatibility
- Energy Management
- Interoperability with EV
- Energy metering
- Credit card payment solution



Optimal Operation

- All-Weather Outdoor Design
- Low Lifecycle Cost
- High Availability Service
- German Eichrecht, French LNE, MID
- Cable Management

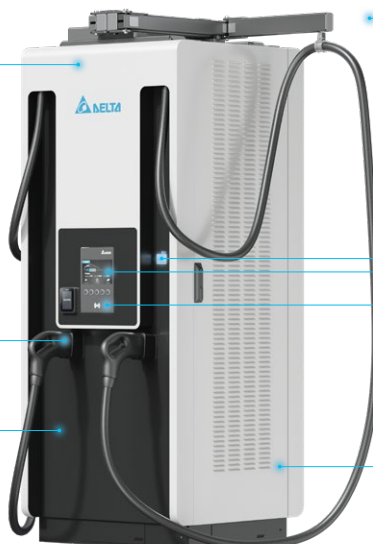


Product at a Glance

Network Connectivity
Ethernet, Modem (2G/3G/4G)

Choice of Connector Standard
• CCS2 (non liquid cooled cable)
• CHAdeMO

Protection
IP55, IK10



Cable Management System
4m reach distance

DC Energy Metering
Energy meter reading window

User Interaction
7in LCD , 5 buttons

User Authentication
RFID, App via OCPP, Credit card ,
Autocharge , PnC (ISO15118-2)

Accessibility
Barrier-free according to DIN 18040

Specifications

| Model Name | | UFC 500 |
|-------------------------------------|---|--|
| Input | | |
| AC Connection | 3-Phase, L1, L2, L3, N, PE; Dual AC connection | |
| AC Voltage | 400 V _{RMS} (L-L) ± 10 % | |
| Frequency | 50 / 60 Hz | |
| Nominal Current | 725 A _{RMS} at maximum power | |
| Power Factor / THDu | 0.99 / 1.5 % | |
| Mains Terminal | Screw type | |
| Transient OVP | Class II / C protection | |
| Output | | |
| DC Output Voltage Range | 200 V to 920 V _{DC} | |
| Maximum Current | 2*500 A _{DC} at 500 V _{DC} / 500 A _{DC} at 920 V _{DC} | |
| Maximum Power | 500 kW _{DC} | |
| Cable Length / Reach Distance | 5 m/4 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, not recommended) | |
| Keypad | 5 buttons, Credit card terminal options: Payter P66 & Apollo | |
| Local Authentication | RFID, App, Payment terminal, Autocharge, PnC (ISO15118-2) | |
| Network Interface | Ethernet, Modem (2G/3G/4G) | |
| Protocol | Back-end system integration with OCPP 1.5 and 1.6J Modbus TCP for load management / energy management system integration | |
| Environmental | | |
| Operating Temperature | -25 °C to +45 °C | |
| Storage Temperature | -40 °C to +80 °C | |
| 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) | 859 × 2079 × 998 mm | |
| Weight * | 700 kg* | |
| Regulation | | |
| Safety | IEC 61851-1, EN 61439-7, EN 17186 | |
| EMC | IEC 61851-21-2 / EN 62311, EN 62479 | |
| DC Energy Metering System | German Eichrecht, French LNE, MID | |
| Accessibility | DIN 18040 | |
| DC Charging Points | | |
| | CCS2 | CHAdeMO |
| Rating Cable and Connector | 500 A _{DC} | 125 A _{DC} / 500 V _{DC} |
| Compliance | IEC 61851-23 / -24, IEC 62196-3, DIN 70121 ISO 15118-2 | IEC 61851-23 / -24, JEVS G 105, Rev. 1.2 compliant |

* 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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