



## 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

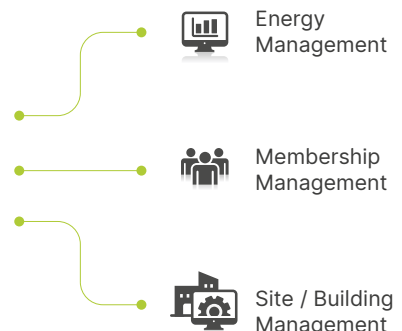


#### Backend System

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
<b>Input</b>		
AC Connection	3-Phase, L1, L2, L3, N, PE; Dual AC connection	
AC Voltage	400 V <sub>RMS</sub> (L-L) ± 10 %	
Frequency	50 / 60 Hz	
Nominal Current	725 A <sub>RMS</sub> at maximum power	
Power Factor / THDu	0.99 / 1.5 %	
Mains Terminal	Screw type	
Transient OVP	Class II / C protection	
<b>Output</b>		
DC Output Voltage Range	200 V to 920 V <sub>DC</sub>	
Maximum Current	2*500 A <sub>DC</sub> at 500 V <sub>DC</sub> / 500 A <sub>DC</sub> at 920 V <sub>DC</sub>	
Maximum Power	500 kW <sub>DC</sub>	
Cable Length / Reach Distance	5 m/4 m*	
Protection	Over current, Under voltage, Over voltage, Short circuit, Ground fault and Isolation monitoring	
<b>User Interface &amp; Control</b>		
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	
<b>Environmental</b>		
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	
<b>Mechanical</b>		
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*	
<b>Regulation</b>		
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	
<b>DC Charging Points</b>		
	<b>CCS2</b>	<b>CHAdeMO</b>
Rating cable and connector	500 A <sub>DC</sub>	125 A <sub>DC</sub> / 500 V <sub>DC</sub>
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

## Delta Electronics (Netherlands) BV

Zandsteen 15, 2132 MZ Hoofddorp, The Netherlands

TEL : +31 20 655-0900

[www.delta-emea.com](http://www.delta-emea.com)



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