

# DC CHARGE UNIT

DCU IN TWO VERSIONS: BASIC/ENHANCED



## HIGHLIGHTS

- Connects CCS DC-pins with the HV-battery
- Manages Connection of a DC Charging Station (EVSE) for DC Charging
- Connection via Type 2 CCS DC-Pins
- High-level communication protocol via Powerline Communication (EPLC) according to DIN 70121 or ISO 15118 in case of DC-charging
- DCU Enhanced version with enhanced Functional Safety Compliance up to ASIL2
- PLC communication gateway through integrated EPLC in the Onboard-charger (DCU Basic) or stand-alone with integrated safety gateway (DCU Safety)
- 250A, optional 500A DC charging current
- Up to 950V battery voltage
- SAE J 1939 CAN communication to the Vehicle CAN Bus

### Stercom Power Solutions GmbH

Ziegelstraße 1  
D-83629 Weyarn  
Germany

Tel. +49 8020 33996-0  
E-Mail: [info@stercom.de](mailto:info@stercom.de)  
Internet: [www.stercom.de](http://www.stercom.de)

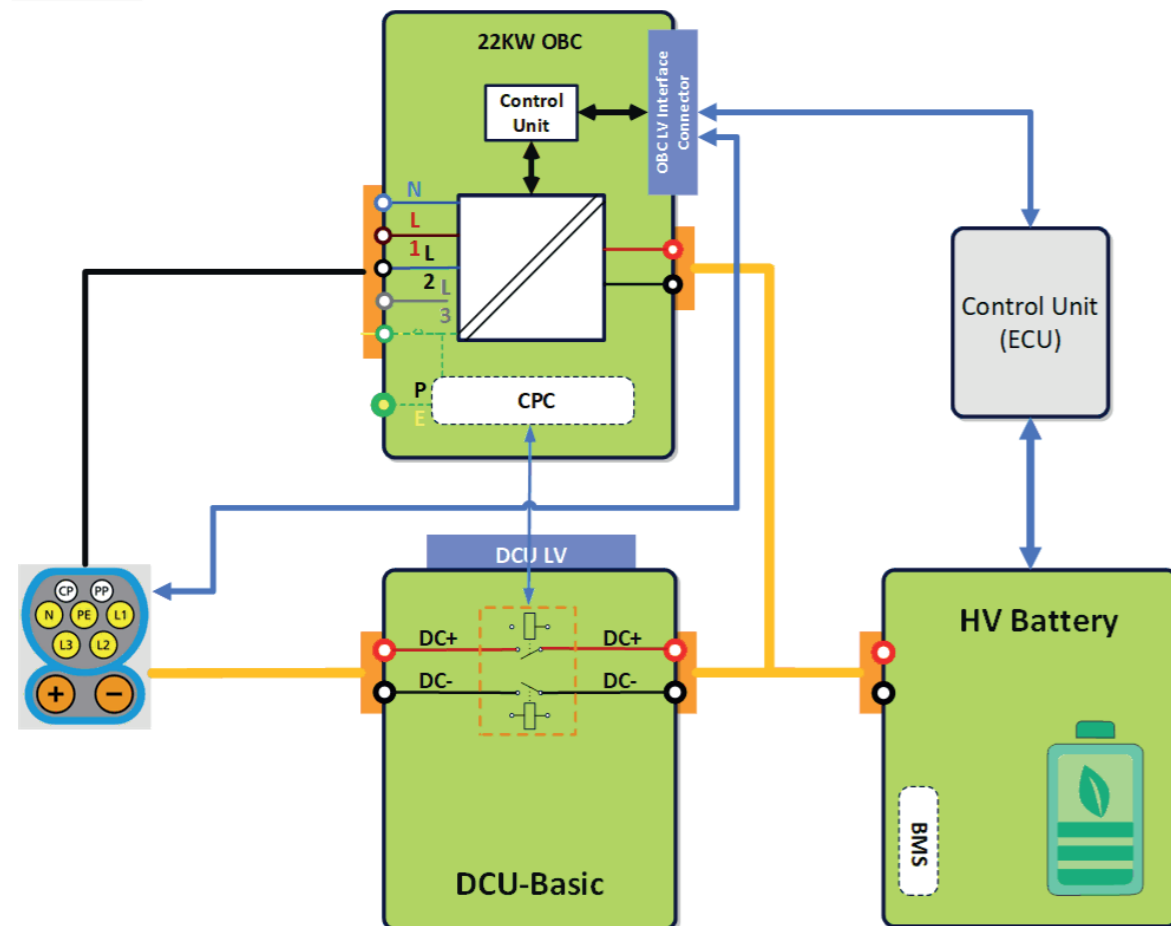
DCU  
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Version 1.3  
18.06.2024

## DCU BASIC



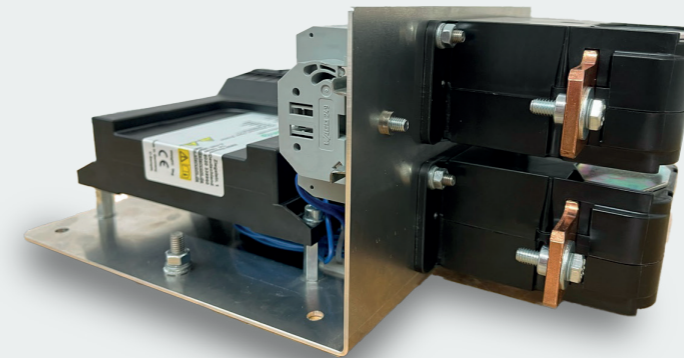
- AC & DC charging via CCS controlled by the Stercom OBC\_450 to OBC\_850V
- Save two pole DC contactors to connect the CCS Type 1 or Type 2 DC Input to the battery
- Communication with the DC Charging Station via the OBC and its integrated ePLC Power Line Communication Module
- Activation of the DC mode via the OBC Signal Plug outputs
- 250A or 500A version available
- Open Frame or IP67 enclosure available
- DC Charging through Hi Level communication according to DIN 70121

### SYSTEM OVERVIEW (BASIC)



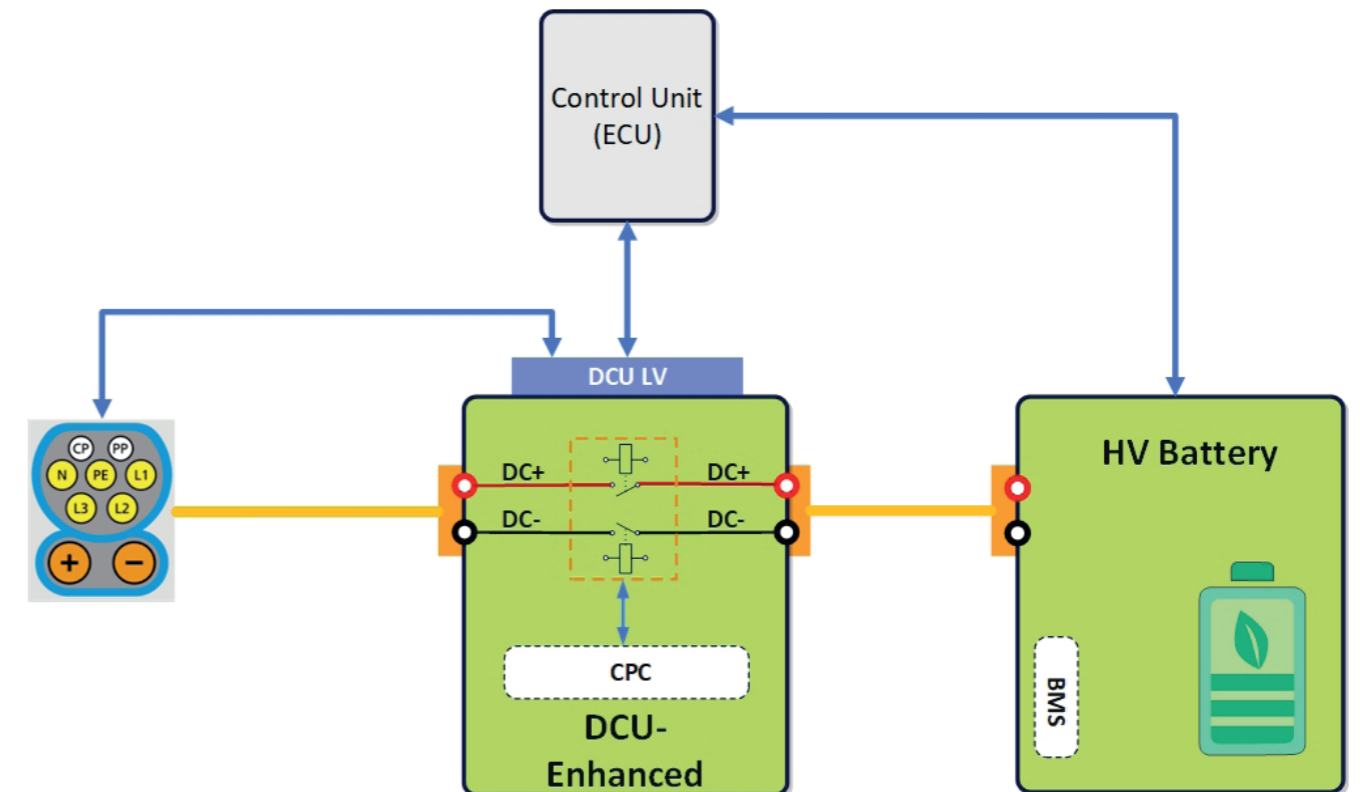
\*All information in this brochure preliminary and subject to change without notice.

## DCU ENHANCED



- DC charging via CCS Stand Alone or in a Master Slave Arrangement with an Stercom OBC
- Communicates via Power Line Communication Directly with the DC charging station
- DIN 70121 or ISO 15118 high level communication standards
- AC charging controlled by the DCU in combination with the OBC in a Slave Mode
- CAN Communication using SAE J 1939 standard
- Save disconnection meeting ISO 26262 Functional Safety requirements
- 250A and 500A version available
- Open Frame or IP67 enclosure available

### SYSTEM OVERVIEW (ENHANCED)



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## TECHNICAL DATA DCU BASIC

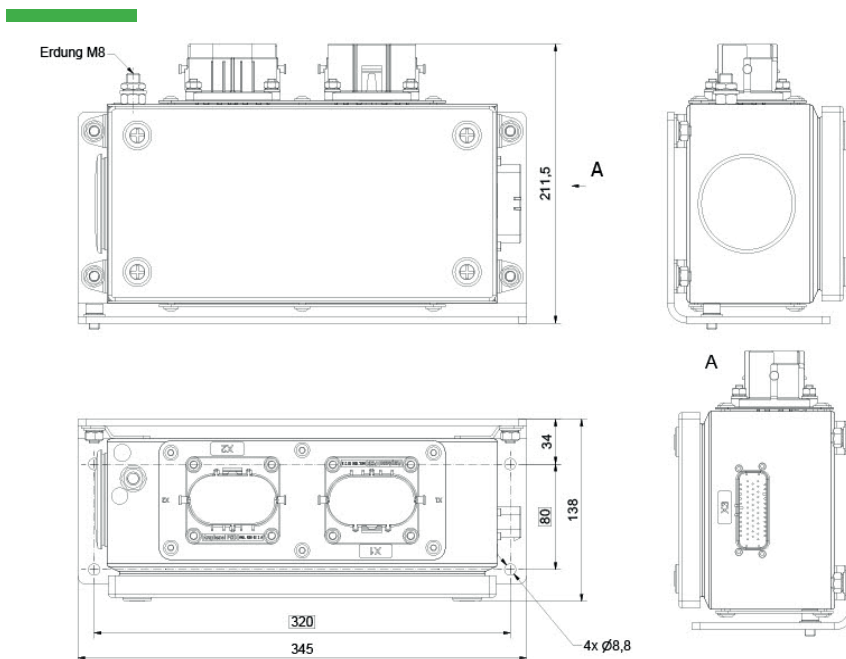
Name	Typical Data
Battery Voltage Range	200 V to 900 V
Max DC Charging Current	250 A
Industrial Protection	IP66
Cooling	Conventional Air Cooling
Operation Temperature	-40 to + 60°C
Connections	DC-connectors or Cable glands
Dimensions	300 x 150 x 120
Weight	6.5 kg

## TECHNICAL DATA DCU ENHANCED

Name	Typical Data
Battery Voltage Range	200 V to 1000 V
Max DC Charging Current	250 A (optional: 500 A)
Communication	DIN 70121 / ISO 15118
Industrial Protection	IP67/ IP6K9K
Cooling	Conventional Air Cooling
Operation Temperature	-40 to + 60 °C
Connections	DC-connectors or Cable glands

\*PLEASE ASK FOR TECHNICAL DETAILS FOR THE 500A DCU IN THE OPEN FRAME OR IP67 ENCLOSURE VERSION

## MECHANICAL DIMENSIONS (BASIC)



Stercom Power Solutions GmbH  
 Ziegelstraße 1  
 D-83629 Weyarn

Tel.: +49 (0) 8020 33996 0  
 Fax: +49 (0) 8020 33996 99  
 Email: [info@stercom.de](mailto:info@stercom.de)  
 Website: [www.stercom.de](http://www.stercom.de)

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