

# Bidirectional DC Wallbox

## Wallbox DCW20/40

The compact **DC Wallbox DCW20/40** with direct payment offers bidirectional charging\*, includes renewable energy sources and is compatible with public power grids. In short: **DCW20/40** is the future of EV charging.

### Bidirectional is the future

- Bidirectional charging allows electric cars to power homes, to participate in energy markets and to help businesses reduce energy costs. It is the future of EV charging and EnerCharge already offers this technology. The DC Wallbox DCW20/DCW40 uses EV batteries to power homes (vehicle-to-home V2H) and buildings (vehicle-to-building V2B) or to feed it back to the grid (vehicle-to-grid V2G). Furthermore, the DCW20/DCW40 can be combined with renewable energy sources such as wind power or solar panels to save grid capacities.

### Two models - three versions

- EnerCharge offers two different models: DCW20/DCW40 and DC Wallbox: DCW20/40 ist equipped with an internal AC/DC-converter offering 20 or 40 kW maximum charging power. The DC Wallbox ist a slim and light-weight version combined with the external AC/DC-Converter "DC PowerUnit" for more powerful applications with max. 200 Ampere.

### CCS Combo-2

- The EnerCharge Wallbox charges electric vehicles using CCS Combo-2. The operation is particularly simple and intuitive thanks to the full-color touchscreen display, which is also readable in bright sunlight. The cable measures up to 3.5 metres for comfortable and easy applications.

### The advantages at a glance:

- DC charging station with **20 kW or 40 kW charging power** (internal AC/DC-converter)
- Also available as dispenser combined with DC Power-Unit (external AC/DC-converter) and **max. 200 A.**
- **Bidirectional charging** offering V2B, V2H and V2G.
- Compatible with **renewable energy sources:** i.e. wind power or solar panels.
- Available with a permanently connected CCS Combo-2 charging cable (Cable length: 4 metres).
- Compatible with all 3-phase AC-Power grids: **400 V<sub>AC</sub> +/- 10% (50/60 Hz)**
- **Fast and easy** installation
- High resolution **touchscreen display** for intuitive user guidance
- **Direct payment** with NFC compatible devices via e.g. Google Pay and Apple Pay.
- Integrated **direct payment module** for ATM-, Giro-, credit- and customer-cards.
- ATM- and Girocards usable as customer cards.
- Robust housing for outdoor usage: **IP54** - interior and exterior
- **Future-proof:** compatible with next generation e-cars (V<sub>oc</sub>: 150 - 920 V)



Wallbox DCW40

### Innovative Direct Payment

- Offering flexible and versatile payment for smooth and fast charging sessions: EnerCharge means maximum payment convenience for your end customers. Payment is simple, smart and safe - without commitments or memberships.

- **Your customers pay with** Debit- and banking cards:



- Credit cards:



- Fleet- and Customer cards:



### DC Wallbox + DC PowerUnit

- Several DC Wallboxes can be combined with one or more DC PowerUnits offering more versatile applications.

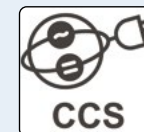


### DCW20/DCW40

- The DCW20/40 ist equipped with an internal AC/DC-converter offering 20 or 40 kW maximum DC-charging power. The DCW20/40 can be connected to the AC-Power Grid.

### CCS Combo-2

- The DCW20/DCW40 Wallbox is available with CCS Combo-2 charge plug with a 3.5 metre long charging cable.



Technical Data	
Nominal Voltage	1000 V <sub>DC</sub>
Nominal Voltage Peak (max. charging current)	134 A
Maximum Rated Power	40 kW
Charging Connector	CCS Combo-2
Power Factor	0,96

Technical Data Housing	
Dimensions	H / W / D: 703 / 410 / 330 mm (without plug holder)
Weight (max.)	108 kilograms
Place / Type of Installation	wall / steel base
Humidity (relative)	5-95% non-condensing
Temperature Ranges	Environment / storage / interior temp.: - 25 to + 45 °C
Housing / Protection Type	Stainless steel 1.4301 (AISI 304), robust design (IP44 / K10), white powder-coated
Custom Design	Yes, with minimum order quantity

Operation	
Display	Yes
Display Size (inches)	5"
Operation	Touch
Barrier-free	Optional
Status Display (for user)	Status-LEDs of charger, via touch-display, via online access

Charging Cable	
Outlets (DC)	1
Charge Points	1
No. of Charging Cables	1
Charging Cables with Fluid Cooling	No
Simultaneous Charging of Multiple Vehicles	No
Cable Length (from outside of housing, incl. charging connector)	4,5 m (without cable management)

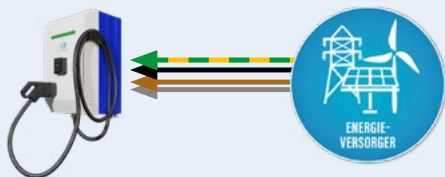
Billing System / Authentication	
NFC Reader	Optional
Energy Meter (MID)	Optional
Authentication of Charging Process	RFID, OCPP, vehicle-ID (MAC), free-charge
Direct Payment	Optional

Payment Options (app, card, etc.)	1. RFID-card 2. Credit- / Debit cards (Mastercard, VISA), Maestro / Debit (depending on acquiring bank) 3. Mobile Payment (Google Pay / Apple Pay)
Payment Terminal Hardware (manufacturer, configuration)	Worldline VALINA

Standards and Certifications	
Verifiably complies with the following standards (test reports available)	Fulfilled upon receipt of the test report
DIN SPEC 70121:2014	Yes
DIN EN ISO 15118-1/2	Yes
German Standard Weights and Measures Law („Eichrecht“)	-
IEC 62196-3	Yes, via charging cable manufacturer

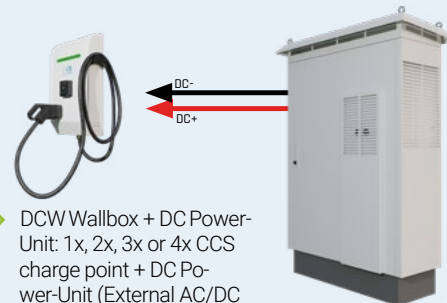
Extras	
Interface for Energy Management	Yes, Modbus TCP Server
Display of Ads	Yes
Operator Service Portal	Location-independent self-management via online access
Remote Updates	Yes

## DCW20/40:



- > DCW20/DCW40:  
1x CCS charge point  
Internal AC/DC-converter - connect to AC power grid max. charging power: 20 or 40 kW

## DC Wallbox + DC PowerUnit:



- > DCW Wallbox + DC Power-Unit: 1x, 2x, 3x or 4x CCS charge point + DC Power-Unit (External AC/DC power supply) max. 200 A

## #Transparent Charging

- > **Modular product and service solutions:**  
100% flexible and future-proof.
- > **Highest end customer service:** No binding and maximum payment convenience.
- > **Economical:**  
Fast profitability - no backend costs.