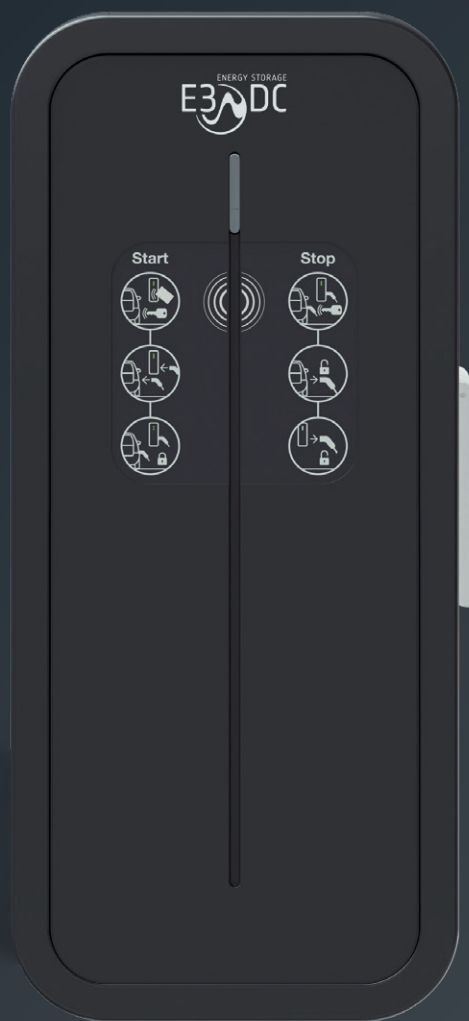


Technical Data

Wallbox multi connect II



Increased use
of your own electricity
thanks to
solar charging
from 1,380 W



A member of Hager Group

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Conformity for intelligent charging ¹⁾	Reduction of charging capacity Mode 3 according to IEC 61851
Power categories	3.7 kW / 11 kW or 7.2 kW / 22 kW ²⁾
Solar power category	1.38 ³⁾ – 3.7 ... 11 ... 22 kW
Status messages / displays	Status lamp, E3/DC portal ¹⁾ and E3/DC app ¹⁾
Key switch	No
RFID function	Yes
Number of type 2 charging points	1
Charging capacity	32 A, 400 V, 3ph / 16 A, 230 V, 1ph
Dimensions W x H x D (mm)	250.5 x 549 x 173
Dimensions with cable carrier W x H x D (mm)	250.5 x 549 x 238
Weight (kg)	6.2
Temperature range (°C)	– 25 to + 50
Max. relative humidity (%)	95
Max. operating altitude (mamsl)	2000
Protection rating	IP55
Impact resistance	IK08
Sockets	Type 2
Load contactor	4-pin 40 A
Control fuse	1-pin B6
Integrated protection	RCM module – DC fault det. 6 mA Contactor sticking monitoring Lock release module
RCD (required in sub-distribution)	Type A 30 mA / 40 A
Housing lockable	No
Interface	ModBUS(TCP) to the E3/DC portal ¹⁾
Warranty	24 months
Upgrade and retrofit option	MID meter

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Intelligent energy management

The E3/DC-Wallbox multi connect II is available ready to connect for charging capacities up to 11 kW (approval-free) or up to 22 kW. The charging capacity is intelligently controlled by the E3/DC energy management system; the charging strategy can be geared towards maximum use of the user's own electricity.

All storage systems and solar power inverters from E3/DC support intelligent charging reduction according to IEC 61851. If the vehicle's charging technology also complies with this standard in full, charging with free solar power is extensively possible because the energy management system adapts charging to the available photovoltaic output.

Automatic phase switching

To achieve a high percentage of solar charging even with small PV systems or in poor weather, it is important for the Wallbox to enable 1-phase charging with a low PV output (up to 3.7 kW). The Wallbox multi connect II is designed for the use of a 3-phase type 2 charging cable, but automatically switches to 1-phase charging at a photovoltaic output of less than 3.6 kW, with the result that solar charging is possible via the photovoltaic system as of just 1.38 kW. This significantly increases the solar percentage of the charging process.

Night-time and forecast-based charging

With E3/DC products, the vehicle can be charged with solar power from the storage system in the evening or at night. In forecast-based charging⁴⁾, the desired vehicle battery state of charge is specified for a certain point in time. By incorporating weather data, the energy management system ensures that charging is carried out using solar power as far as possible and that electricity is only drawn from the grid if necessary to achieve the specified range at the time of departure. The charging data are displayed free of charge via the E3/DC portal⁴⁾.

Load management

E3/DC offers the 'Blackout Prevention' function to avoid overloading the low-voltage distribution network at all times⁴⁾: The storage system software can be used to set a maximum house connection output (e.g. 6 kW) to which the E3/DC system regulates after factoring in the PV output, the storage system, the Wallbox and all other loads at the grid connection point.

Equipment and protection

The Wallbox multi connect II is equipped with a UV-resistant plastic housing and can be used outdoors (IP55). It is also optionally available with a stand for mounting on the floor. The Wallbox multi connect II is equipped with the RFID function. A MID meter is available as an upgrade or retrofit option.

The Wallbox multi connect II can be easily and securely networked with up to six additional E3/DC-Wallboxes via ModBUS(TCP). Electrical protection against fault currents is carried out using an integrated 6 mA DC RCM module according to IEC 61851.

¹⁾ Intelligent actuation of the Wallbox multi connect is possible in combination with energy storage systems from E3/DC. Up to 7 Wallboxes can be combined.

²⁾ Possibly also less depending on vehicle charger (onboard charger).

³⁾ According to the IEC 61851 standard, the device already supports 6 A with one phase, e.g. charging with your own electricity is possible as of 1,380 W.

⁴⁾ Software functions are subject to temporary interruptions due to updates. The complete availability of the system can therefore not be guaranteed constantly.

ENERGY STORAGE

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 + Inverter
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