

Technical data

# Wallbox easy connect



A member of Hager Group

# Technical data

## Wallbox easy connect

<b>Wallbox easy connect</b>	
Compliance for Smart Charging <sup>1)</sup>	reduction in charging power Mode 3 in accordance with IEC 61851
Performance classes	3.7 kW / 11 kW or 3.7 kW / 22 kW
Status messages / displays	status light, E3/DC portal <sup>1)</sup> and E3/DC-App <sup>1)</sup>
Energy meter	MID compliant (DIN rail meter internal), can be read out via E3/DC portal <sup>1)</sup>
Authorisation	key switch
RFID function	prepared
Number of charging points	1
Charging power	32 A, 400 V, 3ph / 16 A, 230 V, 1ph
Dimensions W x H x D (mm)	361 x 254 x 165
Dimensions including the wall bracket option W x H x D (mm)	361 x 510 x 170
Dimensions including the optional stand W x H x D (mm)	365 x 1,210 x 330
Weight (kg)	~ 5 plus wall bracket / stand
Temperature range (° C)	- 20 to + 55
Protection class	IP54
Socket	type 2
Load contactor	4-pole 40 A
Control fuse	1-pole B6
Integrated protection	RCM module – DC error detection 6 mA contactor adhesive monitoring Lock Release Module
RCD (required in sub-distribution)	type A 30 mA / 40 A
LS switch	not integrated
Housing can be locked	no
Interface	ModBUS (TCP) to the E3/DC portal <sup>1)</sup>
Warranty	24 months

### Wallbox versions

Wallbox easy connect flex	Wallbox with wall bracket or stand and type 2 socket (charging cable not included)
Wallbox easy connect fix	Wallbox with wall bracket or stand and attached Mode 3 charging cable <sup>2)</sup> (without type 2 socket)

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### Intelligent energy management

The E3/DC wallbox easy connect is available ready to be connected for charging capacities up to 11 kW (no approval needed) or up to 22 kW. The E3/DC energy management system intelligently controls the charging power, and the user can adjust the charging configuration to maximise the use of self-generated electricity. All storage systems and solar inverters from E3/DC support intelligent charge reduction in accordance with IEC 61851. If the vehicle's charging technology also fully supports this standard, then it can be charged to a large extent using free solar power by adapting the charging process to the available photovoltaic power. Please note the explanations on 1-phase and 3-phase solar charging.

### Nightly and forecast-based charging

With E3/DC products, a vehicle can be charged using solar power from the storage system in the evening or at night. With forecast-based charging<sup>3)</sup>, the required level of charge of the vehicle battery is specified for a certain point in time. The energy management system uses weather data to ensure that charging is carried out using solar power to the greatest extent possible and that power is only drawn from the grid when necessary to provide the desired driving range at the time of departure. Charging data is displayed via the E3/DC portal<sup>3)</sup> free of charge.

### Load management

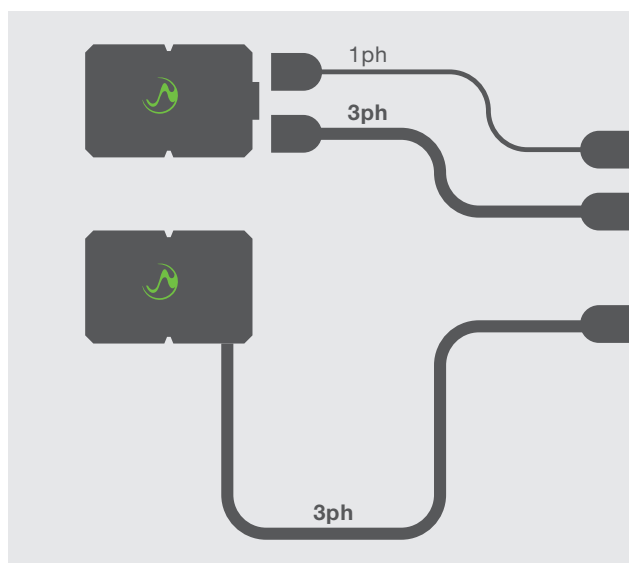
In order to prevent the low voltage grid from being overloaded at any time, E3/DC offers the Blackout Prevention<sup>3)</sup> function: A maximum amount of power that can be drawn from the grid (e.g. 6 kW) can be set for the house using the storage system software, and E3/DC regulates this value by integrating the PV power, the power storage, the wallbox and all other loads at the grid connection point.

### easy connect

The Wallbox version with the permanently attached 3-phase charging cable provides a particularly high level of convenience during the charging process with a practical handle on its connector and an integrated holder. The Wallbox easy connect can easily and safely network with up to six other E3/DC wallboxes via ModBUS TCP. Electrical protection against residual currents is implemented using an integrated RCM module 6 mA DC that complies with IEC 61851. The Wallbox easy connect can be used outdoors (IP54). It is also optionally available as a charging station with a stand.

### Access control and accounting

The Wallbox easy connect is protected against unauthorised charging with a key switch. The accounting required by tax authorities can be done using the data from the E3/DC portal<sup>3)</sup>, which records and sums up the MID-compliant charging processes of the Wallbox.



### Versions for 1-phase and 3-phase solar charging<sup>4)</sup>

To achieve a high proportion of solar charging even with small PV systems or when the weather is unfavourable, it is important that the Wallbox allows 1-phase charging with low PV power (up to 3.7 kW). A 1-phase charging cable is required for 3-phase electric vehicles. Both 1-phase and 3-phase cables can be used with the Wallbox easy connect flex (above).

The Wallbox easy connect fix (below) is equipped with a permanently attached 3-phase charging cable and offers greater convenience. However, 3-phase electric vehicles can only be charged with 3-phase solar energy if the PV system can supply at least 3.6 kW. If the PV system does not achieve this output, then only mixed charging that also uses mains power is possible.

<sup>1)</sup> The Wallbox easy connect can be controlled intelligently when used in conjunction with energy storage devices from E3/DC. Up to 7 wallboxes can be combined.

<sup>2)</sup> Length of the permanently attached charging cable including plug (mm): min. 5,000

<sup>3)</sup> Software functions are subject to brief interruptions caused by updates. The full availability of the system can therefore not be guaranteed at all times.

<sup>4)</sup> A minimum PV power of 1.2 kW (1-phase) or 3.6 kW (3-phase) is required for solar charging. If output falls below these values for a short period of time, e.g. due to cloud cover, the deficit is compensated for using mains electricity. The achievable proportion of solar energy used for charging depends on the installed PV power and the irradiation conditions.



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