

eVolve Rapid

The most compact and affordable DC charging solution

Application

The eVolve Rapid series is designed to bring fast charging to small private sites that do not have access to large high-power electricity infrastructure (small EV fleets, car dealerships, carsharing companies, small private car parks, etc.) to improve the charging speed of electric vehicles at these locations without large investments.

Concept Design

Thanks to Circontrol's years of experience in the field of slow and/or semi-fast public charging, as well as its fast-charging Raption series, the eVolve Rapid series has been launched as a fast-charging solution that is perfect for small private locations and features two models for wall or floor installation (wallbox and post).

Designed to reduce charging times for electric vehicles with larger batteries, which will go from having a range of just over 40 or 60 km (depending on the model) if charged on AC for one hour to being able to travel nearly 150 km with the same charging time and the same enclosure.



Product highlights

- Simple operation thanks to the **'Free to Charge'** mode, allowing the user to forgo authentication.
- Fast, straightforward interaction with the charger through two **Start/Stop buttons** with LED indicators that guide the user through each step of the charging process.
- Its **RGB light bar** enables the user to see the charger status (free, error, charging or completed) at a glance.
- Its **aluminium and ABS plastic enclosure** provides protection against mechanical stress and severe weather conditions, offering greater durability and preventing it from needing replacement in the short term.
- Its **compact exterior design** is typical of an AC charger, however, because **it provides up to 25 kW DC**, it is able to reduce charging time by half or even two-thirds for increased user satisfaction.
- Its lockable front door enables easy access to the inside of the charger for **faster installation and maintenance**. The charger can also be installed next to a wall to optimise available space.
- Developed with **future-proof technology to charge using a broad voltage scale** (from 200 to 920 V), it is capable of charging both new small electric cars and heavy vehicles such as electric buses and lorries.
- The eVolve Rapid series includes optional **electrical safeguards**, not only to minimise the risk of electric shock, but also to deactivate the device on site, which reduces operating costs (OpEx) during technical maintenance or repair services.
- Lower energy consumption — and therefore lower OpEx — due to **sustained high efficiency** since the power module is disconnected when the electric vehicle no longer requires energy for charging.

General Specifications


AC Power Supply	3P + N + PE
AC Input V	400V +/- 10% three-phase
Power Factor	> 0.98
Efficiency	95% at nominal output power
Frequency	50 / 60Hz
Required power supply capacity	27 kVA
Maximum AC input current	39 A
Maximum output power	25 kW
Maximum output current	70 A
Output voltage	150-920 Vdc
Compliance	CE / Combo-2 (DIN 70121; ISO15118) IEC61851-1; IEC61851-23 IEC61851-21-2
Enclosure material	Aluminium & ABS

Enclosure rating	IP54 & IK10
Operating Humidity	Up to 95%
Ambient temperature storage	-40 °C to +60 °C
Lights for status indication	RGB colour indicator
Start / Stop system	Physical button with indicator led light
Enclosure door lock	Key lock
Charge cable length	5.5 metres

Optional devices

Customisation	Frontal labelling
Safety Protections (only wallbox)	RCD type B 30mA MCB curve C

Model Specifications

Models	Rapid Post	Rapid Wallbox
Safety Protections	RCD type B 30mA MCB curve C	-
Operating Temperature	-35°C to +45°C (Low Temp. Kit)	-5°C to +45°C
Environment	Outdoor	Indoor
Dimensions (D x W x H)	450 x 1750 x 290 mm	380 x 985 x 220 mm
Weight	65 kg	52.6 kg
Cable support	Integrated connector holder and cable roller	Cable roller
Connection	CCS2 	CCS2 