

SWARCO

eVOLVE 25 DC POST

THE MOST COMPACT URBAN DC CHARGER SOLUTION

APPLICATION

The eVolve 25 DC quick charger has been designed to provide DC charging for small private charging environments, where limited power supply can sometimes present a hurdle. Ideal for those operating EV fleets, pool cars, dealership and private car parks, the eVolve 25 DC quick charger enables improved charging efficiency and maximum utilisation of today's larger battery capacities.



CONCEPT DESIGN

For the eVolve DC series we have incorporated existing successful designs from our wide product portfolio. By combining the compact housing from our popular eVolve AC series with our state of the art modular DC charging systems, we have produced a low cost, compact DC charger that adds to our existing range of DC charging solutions. With the same small footprint as an AC charger, the eVolve 25 DC has been designed to reduce charging times for larger battery electric vehicles by charging up to 80 miles (25kW) in one hour.

PRODUCT HIGHLIGHTS

- Simple user operation thanks to its **Free to Charge** mode that avoids user authentication by means of an RFID card, phone app or equivalent identification method.
- **User satisfaction** thanks to quick and clear interaction via Start/Stop buttons with green and red LED indicators to guide the user through each step of charging.
- **RGB colour indicator** to indicate the charging status and provide a quick and easy-to-use interaction with the charger.
- **Aluminium and ABS plastic housing** have been combined in a robust structural design that provides protection to both mechanical stress and severe environmental conditions, increasing the charger lifespan.
- **Compact DC design** with a footprint equivalent to public AC chargers but capable of delivering more power. Improved user experience with charging time 2-3 times quicker.
- It's designed based on future-proof technology with a **wide voltage range** (standard CharIn voltage range 200-920V) that allows charging of upcoming new vehicles and heavy duty vehicles such as e-bus or e-truck.
- Its **frontal key-locked door** provides easy access to the inside of the charger, which results in a lower OpEx (Operating Expenditure) due to a quicker installation and service (preventive/corrective). Moreover, it allows the charger to be installed next to a wall, optimising the available space.
- eVolve 25 DC includes **electrical protection**, not only to minimise the human safety risk of electrical shock but also for on-site device de-energization, reducing operating time (OpEx), in case of technical maintenance or repair assistance.
- Lower energy consumption (and therefore OpEx) is achieved due to a **sustained high efficiency** level resulting from disconnecting the power module when the EV is not demanding energy for charge.

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GENERAL SPECIFICATIONS

AC power supply	3P + N + PE
AC input V	400V +/- 10% three-phase
Power factor	> 0.98
Efficiency	94% at nominal output power
Frequency	50 / 60Hz
Compliance	CE / Combo (DIN 70121; ISO15118) EN61851-1; EN61851-23 EN61851-21-2
Enclosure rating	IP54 & IK10
Cable support	Integrated connector holder
Environment	Indoor, Outdoor
Noise level	< 55dBA
Dimensions (W x H x D)	382 x 1750 x 236mm
Weight	65 Kg
Operating temperature	Up to 95%
Operating humidity	-30°C to +45°C
Ambient temperature storage	-40 °C to +60 °C
Lights for status indication	RGB colour indicator
Start / stop system	Physical buttons
Safety protections	RCD type B
Enclosure door lock	Key lock
Charging protocols	CCS 2
Charge cable length	3 metres

OPTIONAL DEVICES

Cable charge length	5.5 metres
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MODEL SPECIFICATIONS

Required power supply capacity	27 KVA
Maximum AC input current	38 A
Maximum output power	25 kW
Maximum output current	72 A
Output voltage	150-950 VDC
Number of plugs	1
Connection	 CCS2

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