

ar solutions for electric ife vehicles

WallBox eVolve Smart

The ultimate design for a WallBox with communications

Application

Designed to be installed in both public access environments (urban spaces, shopping centres, parking lots, airports, petrol stations ...) and private ones (companies, community car park sites...) where their intelligent capabilities offer a range of possibilities which improve the user and/or operator experience.

Concept Design

Nowadays, the concept of smart cities demands an innovative design for its urban equipment, especially for EVSE (EV Supply Equipment) due to its innovative nature. With its stylised shape and modern lines, eVolve series meets this demand.

In the same way, not only external design has been taken into account but also the daily conditions (both operational and environmental) EVSE have to withstand.

Product highlights

For Charge Point **Operator / Owner**

- The **Embedded Load Management** allows a lower TCO (Total Cost of Ownership) by charging two EVs simultaneously.
- Its **frontal key-locked door** provides an 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.
- About the charger's **housing**, aluminium and ABS plastic have been combined in a robust structural design that provides protection to both mechanical stress and severe environmental conditions, increasing the charger lifespan and avoiding its replacement in just a few years.
- In terms of **communication**, either by its Ethernet port (by default) or 3G/GPRS modem (optional) the charger can be connected to a back-office system (by means of OCPP) obtaining benefits such as user management, billing, remote error diagnostic, etc.
- To comply with the most demanding requirements regarding billing, eVolve series includes **MID certified meters.**
- Available in two sizes, the small one with no protections and the large one with protections.

For Charge Point User

- Clear charging instructions and plug status are shown using a **backlight display**, increasing user satisfaction, especially useful when the charger has been previously reserved by another user.
- eVolve series offers a flexible authentication, meaning that the user can either authenticate before or after connecting the cable to the EV. Additionally, the authentication process can also be disabled for a 'plug & charge' use mode.
- The **Accessibility for the disabled** has also been considered, complying with international standards regarding the height of connectors/ display that facilitates its operation.
- eVolve series includes the necessary **electrical protections** (optional) not only to minimize the human safety risk of electrical shock but also to ensure the maximum uptime due to independent protections per connector.



General Specifications

10/100BaseTX (TCP-IP)	
OCPP 1.5 (1.6 J optional)	
IP54 / IK10	
Aluminium & ABS	
Key lock	
Frontal door	
-5 °C to + 45 °C	
-40 °C to + 60 °C	
5 % to 95 % Non-condensing	
RGB colour indicator	
LCD Multi-language	
Mode 3 PWM control according ISO/IEC 61851-1	
Small: 222x382x628 mm Large: 222x382x928 mm	
Small: 25 kg Large: 30 kg	
ISO / IEC14443A / B MIFARE Classic/DESFire EV1 ISO 18092 / ECMA-340 NFC 13.56MHz	

Meter	MID Class 1 - EN50470-3	
Power output management	Embedded Load Management	
Type 2 Socket Protection	Locking System	
Compatible with DLM		
Optional devices		
Low temperature kit	-30 °C to +45 °C	
Electrical protection Type A*	Overcurrent: MCB (curve C) Safety: RCD Type A (30mA) Autorecovery function optional	
Electrical protection Type B*	Overcurrent: MCB (curve C) Safety: RCD Type B (30mA) Autorecovery function optional	
Type 2 Charging Socket	Shutter	
Wireless Communication	3G / GPRS / GSM	
Tethered Cable* (<i>Cable lenght: 4 m</i>)	Type1 + Type1 Type2 + Type 2 Type2 + Type 2 Socket	
Anti-vandal Key		

*Not available in model TM4

Models Specifications

Мо	del		S	т	TM4
AC power supply		oply	1P + N + PE	3P + N + PE	3P + N + PE
AC input voltage			230 VAC +/-10%	400 VAC +/-10%	400 VAC +/-10%
Maximum input current			64 A	64 A	64 A
Maximum input power			14,7 kW	44 kW	44 kW
Number of plugs			2	2	4
Outlet A	Maximun	n output current	32 A	32 A	32 A 16 A
	Maximun	n output power	7,4 kW	22 kW	22 kW 3,7 kW
	AC outpu	ut voltage	230 VAC (1P + N + PE)	400 VAC (3P + N + PE)	400 VAC 230 VAC (3P + N + PE) (1P + N + PE)
Outlet B	Maximun	n output current	32 A	32 A	32 A 16 A
	Maximun	n output power	7,4 kW	22 kW	22 kW 3,7 kW
	AC outpu	ut voltage	230 VAC (1P + N + PE)	400 VAC (3P + N + PE)	400 VAC 230 VAC (3P + N + PE) (1P + N + PE)
Prot		Small	No	No	Not Available
	ections	Large	Yes	Yes	No
Connection			2x Type 2 Socket (lock system)	2x Type 2 Socket (lock system)	2x Type 2 Socket 2x CEE/7 (lock system)
			A B	A B	