

eVolve Smart

The perfect combination of robustness, design and communications



Product highlights

For Charge Point Operators / Owners

- The Integrated Load Management allows for a lower TCO (Total Cost of Ownership) by charging two EVs simultaneously even when the charger is not supplied with its maximum output power.
- The door at the front with key access provides an access to the interior of the charger which results in a lower OPEX 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.
- In terms of the charger's housing, aluminium and ABS plastic have been combined in a robust structural design that provides protection against both mechanical stress and severe environmental conditions, increasing the charger's lifespan, meaning it will not need to be replaces after just a few years.
- In terms of communication, either through the Ethernet port (by default) or 4G/3G/GPRS modem (optional), the charger can be connected to a backoffice system (by means of OCPP) obtaining benefits such as user management, billing or remote error diagnosis.
- To comply with the most demanding requirements regarding billing, the eVolve series includes MID certified metres.

For Charge Point Users

- Clear charging instructions and operating status are shown using a **backlit 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 authenticate either before or after the cable to the EV. Additionally, the authentication process can also be disabled for a Connect 'n' Charge mode.
- Accessibility for disabled users has also been considered, complying with international standards regarding the height of connectors/displays, facilitating their use.
- The eVolve series includes the necessary electrical protections not only to minimise the human safety risk of electrical shock, but also to ensure the maximum uptime thanks to independent protections per connector.

eVolve Smart Series

General Specifications

Network connection	10/100BaseTX (TCP-IP)		
Interface protocol	OCPP 1.5 / OCPP 1.6 J		
Enclosure rating	IP54 / IK10		
Enclosure material	Aluminium & ABS		
Enclosure door lock	Anti-vandal key		
Enclosure access	Frontal door		
Operating temperature	-5 °C to +45 °C		
Storage temperature	-40 °C to +60 °C		
Operating humidity	5% to 95% Non-condensing		
Light beacon	RGB colour indicator		
Display	Multi-language LCD		
Power limit control	Mode 3 PWM control according to ISO/IEC 61851-1		
Dimensions (D x W x H)	Post: 290x450x1550 mm Wallbox: 220x380x930mm		
Weight	Post: 55 Kg Wallbox: 30 Kg		

RFID Reader	ISO / IEC14443A / B MIFARE Classic/DESFire EV1 ISO 18092 / ECMA-340 NFC 13.56MHz			
Meter	MID Class 1 - EN50470-3 Integrated Load Management			
Power output management				
Overcurrent protection	MCB (curve C)			
Safety protection	RCD Type A (30 mA)+6 mA DC			
Type 2 socket protection	Locking System			
Compatible with DLM				
Optional devices				
Low temperature kit	-30 °C to +45 °C			
Safety protection	RCD Type B (30 mA)			
Type 2 charging socket	Shutter			
Wireless Communication	4G / 3G / GPRS / GSM			
Tethered Cable (spring) (Cable length: 4 m)	Type 1 + Type 1 Type 2 + Type 2			
Customisation	Vinyl and logo			

Model Specifications

(wallbox & post)

Mo	dels	S*	Т	TM4**		C63 One* *
AC	power supply	1P + N + PE	3P + N + PE	3P + N + PE		3P + N + PE
AC input voltage		230 V AC +/-10%	400 V AC +/-10%	400 V AC +/-10%		400 V AC +/-10%
Maximum input current		64 A	64 A	64 A		63 A
Maximum input power		14,7 kW	44 kW	44 kW		43 kW
Number of plugs		2	2	4		1
Simultaneous charging sessions		2	2	2		1
4	Maximum output current	32 A	32 A	32 A	16 A	63 A
utlet /	Maximum output power	7,4 kW	22 kW	22 kW	3,7 kW	43 kW
Out	AC output voltage	230 V AC (1P + N + PE)	400 V AC (3P + N + PE)	400 V AC (3P + N + PE)	230 V AC (1P + N + PE)	400 V AC (3P + N + PE)
Outlet B	Maximum output current	32 A	32 A	32 A	16 A	
	Maximum output power	7,4 kW	22 kW	22 kW	3,7 kW	
	AC output voltage	230 V AC (1P + N + PE)	400 V AC (3P + N + PE)	400 V AC (3P + N + PE)	230 V AC (1P + N + PE)	
Connection		2x Type 2 Socket (lock system)	2x Type 2 Socket (lock system)	2x Type 2 Socket (lock system)	2x CEE/7	Type 2 Cable (4m)
		A B	A B	A	B	A

*Only in wallbox **Only in post

Customisation Examples

The eVolve series features a broad frontal panel that can be easily customised.









