lortnoorio

eVolve Smart

The perfect combination of robustness, design and communications

Application

ENAVÄGEN S UT ART NYNÄSVÄGEN

Designed to be installed in both public acces environments (urban spaces, shopping centres, car parks, airports, petrol stations...) and private areas (companies, community park sites...) where its 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, the eVolve series meets this demand.

In addition, not only has the exterior design been taken into account, but also the daily conditions (operational and environmental) that EVSE has to withstand.



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 back-office 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

10/100BaseTX (TCP-IP) OCPP 1.5 / OCPP 1.6 J IP54 / IK10 Aluminium & ABS						
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Aluminium & ABS						
Anti-vandal key						
Frontal door						
-5 °C to +45 °C						
-40 °C to +60 °C 5% to 95% Non-condensing RGB colour indicator						
				Multi-language LCD		
				Mode 3 PWM control according to ISO/IEC 61851-1		
Post: 290x450x1550 mm Wallbox: 220x380x930mm						
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 MCB (curve C)			
Power output management				
Overcurrent protection				
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)	Туре 1 + Туре 1 Туре 2 + Туре 2			
Customisation	Vinyl and logo			

Model Specifications

(wallbox & post)

Мо	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
	nultaneous charging ssions	2	2	2		1
∢	Maximum output current	32 A	32 A	32 A	16 A	63 A
	Maximum output power	7,4 kW	22 kW	22 kW	3,7 kW	43 kW
Outlet	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)
8	Maximum output current	32 A	32 A	32 A	16 A	
	Maximum output power	7,4 kW	22 kW	22 kW	3,7 kW	
Outlet	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)
					B	A

Customisation Examples

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



*Only in wallbox **Only in post