SWARCO

POST eVOLVE SMART

THE MOST SUITABLE CHARGER FOR URBAN ENVIRONMENTS



CONCEPT DESIGN

The smart cities concept demands an innovative design for urban equipment, especially for EVSE (EV Supply Equipment). With its stylised shape and modern lines, the eVolve series meets this criteria. In addition to the aesthetic design, consideration has also been given to the operational and environmental conditions that the units have to withstand.

PRODUCT HIGHLIGHTS

For Charge Point Operator / Owner

- The Embedded 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
- The door at the front with key access provides an access to the interior of the charger which results in a lower OPEX (operating expense) 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 vears.
- · 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, remote error diagnostics, etc.
- 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 Plug '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.



POST eVOLVE SMART

GENERAL SPECIFICATIONS

Network connection	10/100TX (TCP-IP)		
Interface protocol	OCPP 1.5 or OCPP 1.6J		
Enclosure rating	IP54 / IK10		
Enclosure material	Aluminium & ABS		
Enclosure door lock	Key lock		
Enclosure access	Frontal door		
Operating temperature	-5 °C to + 45 °C		
Ambient temperature storage	-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)	290x450x1550 mm		
Weight	55 kg		
RFID Reader	ISO / IEC14443A / B MIFARE Classic/DESFire EV1 ISO 18092 / ECMA-340 NFC 13.56MHz		
Meter	MID Class 1 - EN50470-3		
Power Output Management	Integrated Load Management		

Overcurrent protections	MCB (Curve C)				
Safety protection	RCD Type A (30mA) Autorecovery function optional*				
Type 2 Socket Protection	Locking System				
OPTIONAL DEVICES	FIONAL DEVICES				
Low Temperature Kit	30 °C to +45 °C				
Safety Protection	RCD Type A (30mA) + 6mA DC RCD Type B (30mA) with autorecovery function optional*				
Surge Protection	Four pole transient surge protector IEC 61643-1 (class II)				
Type 2 Charging socket	Shutter				
Wireless communication	4G / 3G / GPRS / GSM				
Anti Vandal Key					
Anti Vandal door	Not available for TM4				
Tethered cable (spring) (cable length: 4m)	Type 1 + Type 1 Type 2 + Type 2 Type 2 + Type 2 Socket				
RFID Extension	Legic Advant / Legic Prime ISO 15693 / ISO 18092, Sony FeliCa				
Compatible with DLM					
Customisation	Frontal Labelling				

^{*}As per regulations this function is not available for cable. It is also not compatible with the "RCD Type A + 6mA DC" option.

MODEL SPECIFICATIONS

MODELS		SONE	TONE	C63 ONE	S	Т
AC power supply		1P + N + PE	3P + N + PE	3P + N + PE	1P + N + PE	3P + N + PE
AC	input voltage	230 VAC +/-10%	400 VAC +/-10%	400 VAC +/-10%	230 VAC +/-10%	400 VAC +/-10%
Ma	ximum input current	32 A	32 A	63 A	64 A	64 A
Maximum input power		7.4 kW	22 kW	43 kW	14.7 kW	44 kW
Number of plugs		1	1	1	2	2
Outlet A	Maximum output current	32 A	32 A	63 A	32 A	32 A
	Maximum output power	7.4 kW	22 kW	43 kW	7.4 kW	22 kW
	AC output voltage	230 VAC (1P + N + PE)	400 VAC (3P + N + PE)	400 VAC (3P + N + PE)	230 VAC (1P + N + PE)	400 VAC (3P + N + PE)
Outlet B	Maximum output current				32 A	32 A
	Maximum output power				7.4 kW	22 kW
	AC output voltage				230 VAC (1P + N + PE)	400 VAC (3P + N + PE)
Connection	Controller	1 x Type 2 Socket (lock system)	1 x Type 2 Socket (lock system)	Type 2 Cable (4m)	2 x Type 2 Socket (lock system)	2 x Type 2 Socket (lock system)
<u>၂</u>		А	А	А	А В	А В

^{*} Exclusive use type 2 or CEE/7 per outlet

