# **SWARCO** WALL BOX CONTROLLER RECEIVER THE MOST COST-EFFECTIVE WAY FOR MULTIPLE CHARGING

### **APPLICATION**

Designed to minimise the initial investment (CAPEX) and the operating expenses (OPEX) when several chargers are required, this solution is a combination of a Controller charger and a set of Receivers managed by this Controller. The whole system works as if all the chargers had smart capabilities.

Suitable for public and private installations such as work fleets, shopping centres, car parks, leisure sites and airports, amongst others.

### CONCEPT DESIGN

It shares the external concept design with the acclaimed eVolve series, so beyond its modern lines and robust housing, harsh weather conditions and user-friendly operation have been considered.

## **PRODUCT HIGHLIGHTS**

- The Controller charger is capable of balancing the available power based on the number of charge points in use, thus the total power required to provide the total load gets substantially reduced. This may represent a cost reduction in the electrical connection set up and a cost saving due to a minor energy contract.
- Also, by centralising the smart capabilities into the Controller, the hardware of the Receivers gets reduced, so combining Controller-Receiver is the best choice to minimise the hardware cost.
- A single modem in the Controller unit can be used for remote connection and back-office system integration (by means of OCPP 1.5 or 1.6J), so communication fees also get reduced avoiding extra OPEX cost.

- The Controller can operate up to 8 Receivers (max. 18 charging sockets including the Controller) managing the load and user authentication.
- For car parks without connection to an OCPP back office system, standalone configuration offers a load balancing feature and user control through RFID.
- 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 guicker installation and service (preventive/corrective). Moreover, it allows the charger to be installed next to a wall optimising the available space.
- Its 8" daylight readable touch-screen not only provides clear charging instructions (e.g. wrong EV shift position to start the charge) and plug status (e.g. reserved charge point) but also allows the user to select amongst several languages.

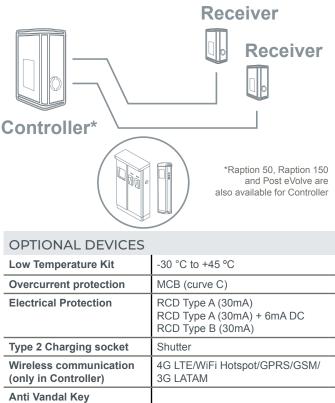
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- To comply with the most demanding requirements regarding billing, eVolve series includes MID certified meters.
- · eVolve series include the necessary electrical protections not only to minimise the human safety risk of electrical shock but also to ensure the maximum uptime due to independent protections per connector.



## WALL CONTROLLER & RECEIVER **GENERAL SPECIFICATIONS**

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	-20 °C to + 60 °C		
Operating humidity	5 % to 95 % Non-condensing		
Meter	MID Class 1 - EN50470-3		
Light beacon	RGB colour indicator		
Power limit control	Mode 3 PWM control according ISO/IEC 61851-1		
Dimensions	Small: 222 x 382 x 628 mm (only available on Controller Zero and on Receiver S) Large: 222 x 382 x 928 mm		
Weight	Small: 25 kg Large: 30 Kg		
Power Output Management	Integrated Load Management		
Type 2 Socket Protection	Locking System		



Type 1 + Type 1

Type 2 + Type 2

Frontal Labelling

FeliCa

Switch TCP ethernet 8 ports

Switch TCP ethernet 12 ports

Legic Advant / Legic Prime ISO 15693 / ISO 18092, Sony

CONTROLLER				
Network connection	10/100TX (TCP-IP)			
Interface protocol	OCPP 1.5 or OCPP 1.6J			
Display HMI	8" anti vandal touch screen			
RFID Reader	ISO/IEC 14443 A/B MIFARE Classic/DESFire EV1 ISO 18092 ECMA-340 NFC 16.53MHz			
RECEIVER				

## Ethernet UTP **Controller Communication**

MODEL SPECIFICATIONS

MODE	ELS	CONTROLLER ZERO	CONTROLLER S ONE	CONTROLLER T ONE	CONTROLLER OR RECEIVER S	CONTROLLER OR RECEIVER T
AC po	wer supply	1P + N + PE	1P + N + PE	3P + N + PE	1P + N + PE	3P + N + PE
AC input voltage		230 VAC +/-10%	230 VAC +/-10%	400 VAC +/-10%	230 VAC +/-10%	400 VAC +/-10%
Maximum input current		0.15 mA	32 A	32 A	64 A	64 A
Maximum input power		35 kW	7.4 kW	22 kW	14.8 kW	44 kW
Numb	er of plugs	0	1	1	2	2
Outlet A	Maximum output current		32 A	32 A	32 A	32 A
	Maximum output power		7.4 kW	22 kW	7.4 kW	22 kW
	AC output voltage		230 VAC (1P + 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	Not available	1 x Type 2 Socket (lock system)	1 x Type 2 Socket (lock system)	Check availability	Check availability
	Receiver	Not available	Not available	Not available	2 x Type 2 Socket (lock system)	2 x Type 2 Socket (lock system)

Tethered cable (spring)

available in Controller)

(only available in Receiver)

Cable length: 4m

Network hub (only

**RFID Extension** 

Customisation



