

SWARCO

POST 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.

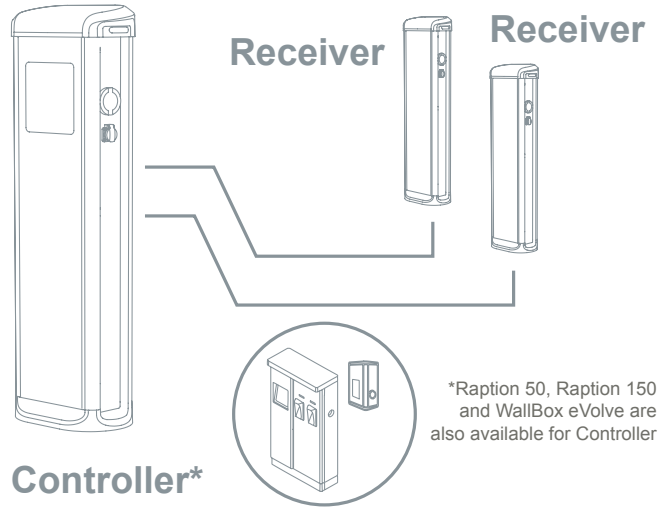
PRODUCT HIGHLIGHTS

- 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 quicker 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.
- 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.

POST 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	450 x 290 x 1550 mm
Weight	55 kg
Power Output Management	Embedded Load Management
Overcurrent protections	MCB (Curve C)
Safety protection	RCD Type A (30mA)
Type 2 Socket Protection	Locking System



*Raption 50, Raption 150 and WallBox eVolve are also available for Controller

Controller*

OPTIONAL DEVICES

Low Temperature Kit	-30 °C to +45 °C
Safety Protection	RCD Type B (30mA)
Surge Protection	Four pole transient surge protector IEC 61643-1 (class II)
Type 2 Charging socket	Shutter
Wireless communication (only in Controller)	4G LTE/WiFi Hotspot/GPRS/GSM/3G LATAM
Anti Vandal Key	
Tethered cable (spring) (cable length: 4m)	Type 1 + Type 1 Type 2 + Type 2
Network hub (only available in Controller)	Switch TCP ethernet 8 ports Switch TCP ethernet 12 ports
RFID Extension	Legic Advant / Legic Prime ISO 15693 / ISO 18092, Sony FeliCa
Customisation	Frontal Labelling

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

Controller Communication	Ethernet UTP
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MODEL SPECIFICATIONS

MODELS		CONTROLLER S ONE	CONTROLLER T ONE	CONTROLLER OR RECEIVER C63 ONE	CONTROLLER OR RECEIVER S	CONTROLLER OR RECEIVER T
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%
Maximum input current		32 A	32 A	63 A	64 A	64 A
Maximum input power		7.4 kW	22 kW	44 kW	14.8 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)	1 x Type 2 Cable (4m)	2 x Type 2 Socket (lock system)	2 x Type 2 Socket (lock system)
	Receiver	Not available	Not available	1 x Type 2 Cable (4m)	2 x Type 2 Socket (lock system)	2 x Type 2 Socket (lock system)