

# eVolve Master - Satellite

*The most cost-effective multiple charging solution*

## 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 Master charger and a set of Satellites controlled by this Master. The whole system works as if all the chargers had smart capabilities.

Suitable for private installations such as company fleets or communities with a single administrator, and also for public access environment such as shopping centers, car parks, airports and others.

## Concept Design

It has the same exterior design concept as the acclaimed eVolve Smart series, and in addition to featuring modern lines and robust housing, harsh weather conditions and user-friendly operation have also been considered.



## Product highlights

- The Master 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 becomes substantially reduced. This makes it possible to reduce costs in the electrical installation setup and a cost saving on the contracted power.
- Also, by centralising the smart capabilities into the Master, the hardware of the Satellites is reduced, so combining Master-Satellite is the **best choice to minimise the hardware cost**.
- **A single modem** in the Master unit can be used for remote connection and back-end system integration (by means of OCPP 1.5 or 1.6J), so communication fees are also reduced avoiding extra OPEX cost.
- **The Master can operate up to 8 Satellites** (max. 18 charging points including the Master) managing the load and user authentication.
- 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 quicker installation and service (preventive/corrective). Moreover, it allows the charger to be installed in front of a wall optimising the available space.
- Its **8" colour daylight readable touchscreen** not only provides clear charging instructions and operating status (e.g. reserved charge point) but also allows the user to select from several languages.
- To comply with the most demanding requirements regarding billing, the eVolve series includes **MID certified metres**.
- This series include the necessary **electrical protections** not only to minimise the human safety risk of electric shocks, but also to ensure the maximum uptime thanks to independent protections per connector.
- **Integrated contactless payment system:** Offers an easy, intuitive and contactless card payment experience. (Only available for Master Post)

# eVolve Master - Satellite

## General Specifications

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	-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 to ISO/IEC 61851-1
Dimensions (D x W x D)	290 x 450 x 1550 mm
Weight	55 kg
Power Output Management	Integrated Load Management
Overcurrent protection	MCB (Curve C)
Safety protection	RCD Type A (30 mA) + 6 mA DC
Type 2 socket protection	Locking System
<b>Master</b>	
Network connection	10/100TX (TCP-IP)
Interface protocol	OCPP 1.5 / OCPP 1.6 J
Display HMI	8" anti-vandal touchscreen
RFID Reader	ISO/IEC 14443 A/B MIFARE Classic/DESFire EV1 ISO 18092 ECMA-340 NFC 16.53MHz
<b>Satellite</b>	
Master Communication	Ethernet UTP

Optional devices	
Low Temperature Kit	-30 °C to +45 °C
Safety Protection	RCD Type B
Type 2 socket protection	Shutter
Wireless communication (only in Master)	EMEA - 4G LTE/WiFi Hotspot/GPRS/GSM LATAM/APAC - 4G LTE/GPRS/GSM
Tethered cable (spring) (cable length: 4m)	Type 1 + Type 1 Type 2 + Type 2
Network hub (only available in Post Master)	1 or 2 Switch TCP ethernet 8 ports
Contactless payment (only available in Post Master)	Integrated credit card payment terminal
Customisation	Vinyl and logo



## Model Specifications

Models	T	Post Master C63 One
AC power supply	3P + N + PE	3P + N + PE
AC input voltage	400 V AC +/-10%	400 V AC +/-10%
Maximum input current	64 A	63 A
Maximum input power	44 kW	43 kW
Number of plugs	2	1
Outlet A	Maximum output current	32 A
	Maximum output power	22 kW
	AC output voltage	400 V AC (3P + N + PE)
Outlet B	Maximum output current	32 A
	Maximum output power	22 kW
	AC output voltage	400 V AC (3P + N + PE)
Connection	Master 2x Socket Type 2 (lock system)	1 x Type 2 Cable (4m)
	Satellite 2x Socket Type 2 (lock system)	

