



## URBAN MASTER CCS1

URBAN MASTER CCS1, DC recharging post

Code: V10731.

- > Communications: Ethernet
- > Output type: 150 ... 920 Vcc - 70 A - 25 kW
- > Connector type: CCS Combo 1 [CC]
- > Grid type: Three-phase
- > Charge mode: 4
- > No. Sockets: 1
- > Earth leakage protection: Type B

### Description

The URBAN MASTER/SLAVE CCS solution consists of a combination of a smart Master charger that provides communications and has an RFID reader, 8" touchscreen and an optional bank card payment system that controls a set of Slaves.

With a compact and robust design and an aluminium enclosure for all types of environments, the Urban CCS is the fast-charging version of Circutor's venerable Urban line, with a DC charging power of 25 kW, thus sidestepping the power limitation imposed by chargers on board electric vehicles with AC charging.

The system as a whole works as if all the chargers were smart, either by connecting the Master to a manager via OCPP, or independently by setting up a white list of users for the group.

### Application

The Urban CCS range has been developed to offer a fast-charging solution in environments where there is no high-power electrical infrastructure, and where AC charging is insufficient. It is ideal for charging small fleets of electric

vehicles, dealerships, carsharing companies, small private car parks, etc., without making a major investment. This device can be installed on the wall or floor thanks to its two models (wallbox and post).



## URBAN MASTER CCS1

Outdoor charging posts

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### Specifications

#### AC power supply

|                 |                                               |
|-----------------|-----------------------------------------------|
| Input intensity | 39 A                                          |
| Power factor    | > 0,98                                        |
| Frequency       | 50 / 60 Hz                                    |
| Type of network | 3Ph + N + GND                                 |
| Nominal voltage | 400 V ~ ( $\pm 10\%$ ) (480 V ~ bajo demanda) |

#### Electrical characteristics

|                           |                                  |
|---------------------------|----------------------------------|
| Surge protection (DSP)    | Optional                         |
| Overcurrent protection    | MCB curve C (50 A)               |
| Cable: Connector type     | CCS Combo 1 (5.5-m cable length) |
| Max. output intensity (A) | 0 ... 70 cc                      |
| Charging mode             | Mode 4                           |
| No. of charges            | 1                                |
| Max. output power (kW)    | 25 (cc)                          |
| Efficiency                | 94%                              |
| Voltage                   | 150 ... 920 Vdc                  |

#### Mechanical characteristics

|                                  |                       |
|----------------------------------|-----------------------|
| Size (mm) width x height x depth | 479 x 1750 x 288 (mm) |
| Envelope                         | Aluminium & ABS       |
| Noise                            | < 55 dB               |
| Weight (kg)                      | 77                    |

#### Environmental characteristics

|                                          |                |
|------------------------------------------|----------------|
| Protection class                         | IP 54 / IK10   |
| Relative humidity (without condensation) | 5 ... 95 %     |
| Storage temperature                      | -40 ... +60 °C |
| Operating temperature                    | -25 ... +45 °C |

#### Standards

|                                          |                                                                                                        |
|------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Certifications                           | CE                                                                                                     |
| Electrical safety, Installation category | CAT III 300 V                                                                                          |
| Standards                                | IEC 61851-1, IEC 61851-23, IEC 61851-21-2, CE / Combo, DIN 70121, ISO 15118, MID: Class 1 - EN 50470-3 |

#### Communication Network

|                        |                                  |
|------------------------|----------------------------------|
| Protocol               | OCPP                             |
| Technology / Interface | Ethernet 10/100 Base TX (TCP/IP) |



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## Electrical safety

|            |                                                                 |
|------------|-----------------------------------------------------------------|
| Insulation | Double-insulated electric shock protection class II (IEC 61010) |
|------------|-----------------------------------------------------------------|

## User interface

|                                       |                                                                                     |
|---------------------------------------|-------------------------------------------------------------------------------------|
| RFID (Radio-Frequency Identification) | ISO/IEC 14443 A/B, MIFARE Classic / Desfire EV1 ISO 18092 / ECMA-340, NFC 13,56 MHz |
| LED                                   | RGB color charge indicator                                                          |
| Display type                          | 8" Touch TFT, multilingual                                                          |

## Features / performance

|                                   |                                                          |
|-----------------------------------|----------------------------------------------------------|
| Heating and air conditioning unit | -35 ... +45 °C (Optional)                                |
| Energy measurement                | AC electric energy meter in accordance with UNE-EN 50470 |

## Protection

|                           |       |
|---------------------------|-------|
| Safety relay type (class) | RCD B |
|---------------------------|-------|

## Output 1

|                 |                  |
|-----------------|------------------|
| Maximum current | 70 A             |
| Maximum power   | 25 kW            |
| Voltage range   | 150-920 Vcc      |
| Connector type  | CCS Combo 1 (CC) |
| Network type    | DC               |

## URBAN MASTER DC

Intelligent charging posts, DC charging

| CODE    | TYPE              | No. Sockets | Output type                    | Connector type   | Grid type   |
|---------|-------------------|-------------|--------------------------------|------------------|-------------|
| MASTER  |                   |             |                                |                  |             |
| V10730. | URBAN MASTER CCS2 | 1           | 150 ... 920 Vcc - 70 A - 25 kW | CCS Combo 2 [FF] | Three-phase |
| V10731. | URBAN MASTER CCS1 | 1           | 150 ... 920 Vcc - 70 A - 25 kW | CCS Combo 1 [CC] | Three-phase |
| SLAVE   |                   |             |                                |                  |             |
| V10740. | URBAN SLAVE CCS2  | 1           | 150 ... 920 Vcc - 70 A - 25 kW | CCS Combo 2 [FF] | Three-phase |
| V10741. | URBAN SLAVE CCS1  | 1           | 150 ... 920 Vcc - 70 A - 25 kW | CCS Combo 1 [CC] | Three-phase |