

# EV CHARGER\*, TWO FIXED, STRAIGHT CHARGING CABLES

CHARGESTORM® CONNECTED 2 is an improved and updated version of our advanced EV charger with a range of functions and built in safety features. It has a powerful CCU charge controller, which can handle dual charging points. CHARGESTORM® CONNECTED 2 has internal load balancing between the two unit charging points as standard, and is also compatible with NANOGRID™, a dynamic load balancing solution, for use with multiple devices.

## OUR MOST ADVANCED EV CHARGER TO DATE FOR ELECTRIC AND PLUGIN HYBRID VEHICLES

CHARGESTORM® CONNECTED 2 is a state of the art EV charger specifically designed to be safe and easy to use. It's ideal for home, business, public parking and tenant-owner housing associations, and it meets all the required technical safety standards. An Ethernet cable connects the EV charger to the internet. If Ethernet cannot be used, the unit can also be supplied with an optional 3G/4G modem. Internet connection is required for portal services and app management. We support integration with all major operators in electric car charging.

## APP CONTROL VIA TAKING CHARGE APP

This simple and user friendly app allows you to schedule charging, view your history, adjust charging power, manage RFID, manage software updates and adjust the display brightness.

- Charging power 1.4–22 kW
- Adjustable charging power via app or software
- NanoGrid™ dynamic load balancing support
- Built-in fuse, AC and DC ground fault detection, built-in energy meter
- Easy installation and lock protected for maintenance
- Wall or pole mounted
- Ambient operating temperature from -30 °C to +50 °C
- RFID reader
- OCPP 1.5/ 1.6
- IP54 and IK10
- 2-year warranty



\*You might have noticed that we call the Chargestorm Connected 2 an 'EV charger'. Technically speaking it's 'electrical vehicle supply equipment' (or EVSE for short), that provides a safe supply of electricity to power the on-board battery charger in your Electrical Vehicle (EV). Most people use the term EV charger, so to keep things simple, we've chosen to use this term too.

|                                  |  |
|----------------------------------|--|
| VERSION                          | 2  |
| ARTICLE NUMBER                   | 910-17092  |
| E-NUMBER                         | 24 802 11  |
| CHARGING METHOD                  | Mode 3   |
| CHARGING CATEGORY                | AC charging  |
| FIXED CHARGING CABLE             | Two fixed, straight charging cables  |
| VEHICLE CONNECTOR                | Type 2   |
| POSITIONING                      | Wall mounting (standard), pole (option)  |
| LOAD BALANCING                   | Load balancing (NanoGrid™ Internal) is included between the dual charging points of the EV charger. Options for other load balancing solutions between several units (NanoGrid™ Home, NanoGrid™ Local, NanoGrid™ CTEK Grid Central). |
| ENERGY METER                     | MID (standard)   |
| NUMBER OF PHASES                 | 3 Phase  |
| CHARGING CURRENT                 | 6-32 A   |
| CHARGING POWER                   | 1.4-22 kW  |
| FREQUENCY                        | 50 Hz  |
| RATED VOLTAGE (INPUT)            | 230/ 400 V   |
| POWER INPUT CONNECTOR            | 16 mm <sup>2</sup> Terminal block  |
| AMBIENT OPERATING TEMPERATURE    | -30 °C to +50 °C   |
| RELATIVE HUMIDITY                | Up to 100% at 25 °C  |
| ALTITUDE                         | < 2000 m   |
| WEIGHT                           | ~ 14 kg  |
| ENCLOSURE DIMENSIONS (H X W X D) | 449 x 282 x 160 mm   |
| ENCLOSURE MATERIAL               | Plastic, Metal   |
| ENCLOSURE COLOUR (METAL)         | Green  |
| ENCLOSURE COLOUR (PLASTIC)       | Black  |
| ENCLOSURE LOCK                   | Key  |
| GROUND FAULT DETECTION           | Built-in ground fault detection, 30 mA AC, 6 mA DC   |
| GROUND FAULT RESET               | Semi-automatic   |
| AUTHENTICATION                   | RFID, App  |
| RFID READER                      | Yes  |
| RFID TAG STANDARD                | ISO15693, ISO14443A (MIFARE)   |
| COMMUNICATION PROTOCOL           | OCPP 1.5/ 1.6  |
| USER INTERFACE                   | LED symbols  |
| CONNECTIVITY                     | Ethernet (standard), 3G/4G (option)  |
| APP SUPPORT                      | Smart phone display, Taking Charge App for Android and IOS (requires that the EV charger is connected to the cloud service Charge portal).   |
| COMPATIBILITY MAINS              | IT-net, TN-net   |
| COMPLIANCE                       | CE, IEC 61851-1*, IEC 62196-2, IEC 61439-7   |
| APPROVAL                         | Download the Declaration of Conformity from <a href="http://www.ctekmobility.com">www.ctekmobility.com</a>   |
| INGRESS PROTECTION               | IP54   |
| IMPACT PROTECTION                | IK10   |
| WARRANTY                         | 2 years  |

### **MOUNTING AND CONNECTION**

CHARGESTORM® CONNECTED 2 can be easily mounted on a wall with just 4 screws. It can also be mounted on a standard 60 mm pole (option) by attaching the mounting plate to the back of the EV charger. If you need to fit dual EV chargers, we also supply a bracket that can handle two EV chargers back to back and up to four charging outlets. The pole bracket also allows you to sew both feed and Ethernet cables directly inside it for a tidy and secure installation.

### **GUARANTEED QUALITY WITH CTEK**

Quality is at the heart of everything we do, with safety, simplicity and flexibility characterizing all of our products and solutions. If you have any questions about our products, or would like further information about EV charging, our Customer Support Team is here to help. We are the global leader in battery management solutions, and supply products to more than 70 countries throughout the world. CTEK is also a reliable OEM supplier to many of the world's most prestigious vehicle manufacturers.

For more information visit [WWW.CTEK.COM](http://WWW.CTEK.COM)

\* The CHARGESTORM® CONNECTED 2 22KW models, may derate when operating for longer periods of charging time in high ambient temperatures. This is an inbuilt safety feature to avoid internal overheating. This is a deviation to IEC 61851-1:2017 standard.