

CTEK E-MOBILITY

PRODUCT GUIDE

Complete and safe solutions for charging electric vehicles



ABOUT US

CTEK is the global leader in battery care and management solutions, selling over a million chargers every year in over 70 countries. That's why we're bringing our decades of expertise and technological innovation to the Electric Vehicle (EV) sector. Thanks to our acquisition of Scandinavia's largest producer and developer of electric vehicle charging solutions, we can continue the mission - to develop and provide the safest electric car charging on the market.

OUR PEOPLE: are constantly pushing our pioneering technology to create the most advanced EV charging solutions available today. They are developed right here in Sweden, from our headquarters in Vikmanshyttan and our E-Mobility center of excellence in Norrköping.

OUR CUSTOMERS: come from diverse industries/niches, such as municipalities, energy companies, housing cooperatives, property owners, corporations, parking companies, and private individuals.

OUR PRODUCTS: are world-class and feature cutting-edge technology. They are characterised by safety, dependability, and ease of use.



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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 tenantowner housing associations, and it meets all the required technical safety standards. Our EV charger is available in several different power and outlet/charging cable models. 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 modem. Internet connection is required for portal services and app management. We support integration with all major operators in electric car charging.

CHARGESTORM[®] **CONNECTED 2**

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 type 2 outlets/charging cables. CHARGESTORM[®] CONNECTED 2 offers dynamic load balancing support through NanoGrid™ between multiple devices.

- 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

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.

TAKING CHARGE

With our TAKING CHARGE app, you can easily control your CHARGESTORM® CONNECTED unit directly with your mobile phone. The app has a simple interface to give you complete control of your wallbox's features and settings.

- History and data for charging
- Tag management (RFID)
- Free software updates
- Set EV charger LED-brightness
- Ability to control two EV chargers with the same app
- Adjust the charging power you need
- Charging scheduling
- Check power use for active charging
- Also available for tenant-owner housing associations*

*Cost for app/portal for larger installations/tenant-owner housing associations. App control for up to two single outlet wallboxes or one dual wallbox is free for home users. More than one unit is charged according to our price list.

ALWAYS CONNECTED

The app works with CHARGESTORM® CONNECTED and is completely free of charge for home users*. All you need to get started with the app is an internet connection to your EV charger via Ethernet or 3G (optional).







NJORD® GO

NJORD® GO is a portable 11 kW EV charger that gives you fast, reliable Electric Vehicle (EV) charging at home, or when you're on the move. The charger can be used with the CTEK app to give you full BLUETOOTH® and WiFi control over charging current and scheduling, for maximum flexibility.

- Cost effective type 2, 16 A/3 Phase (11 kW) EV charger.
- No installation necessary – simply plug the unit into your domestic or commercial CEE socket.
- Small, lightweight portable unit in durable, impact resistant case.
- Intuitive user interface with charging status information.

CTEK APP – TAKE CONTROL OF YOUR EV CHARGING

CTEK app gives you total control over how you charge your EV and when you charge it. Simply connect to your NJORD® GO over BLUETOOTH® or WiFi.

- Schedule charging for any time of day and for any length of time.
- Lower or increase the power easily to balance the load at times of high domestic power consumption.
- Automatically start, pause or stop charging remotely.
- View your charging history.

SMART, EASY TO USE, FULLY PORTABLE

NJORD® GO from CTEK is a durable, lightweight and portable all-in-one EV charger available with a type 2 connector, having a charging capacity up to 11 kW. It comes with fixed heavy duty 1.5 m long mains cable and 5 m EV charging cable, so there's no installation necessary – simply plug the unit into your domestic or commercial CEE socket for charging. The charger's user interface clearly indicates charge status.



EV CHARGING CABLES

All our EV charging cables have been designed to work with Mode 3 charging points. Our cables allow your EV to automatically communicate with the charging point for fast, safe and reliable charging.

- Tough, durable 5 metre cable.
- Non-flammable (V-0), bend resistant construction.
- Safe, high temperature resistant epoxy resin handles.
- Strong synthetic carrier bag with velcro strips for non-slip storage.
- CE, SGS approved, protection class IP44.
- Two-year warranty.
- For use with Mode 3 charging stations (ISO17409/IEC61851).

CTEK EV cables are available in three versions to cover the widest range of vehicle and charging applications:

- Type 2, 3-Phase 32A (22kW)
- Type 2, Single Phase 32A (7.4kW)
- Type 1, Single phase 32A (7.4kW)






SAFE, FLEXIBLE AND FUTURE PROOF

CTEK EV charging cables are made from a tough, non-flammable plastic which conforms to V-0 specifications. They're fitted with durable, heat spreading, synthetic resin plugs so they won't crack and are completely safe to handle. They come with a two-year warranty and are CE-SGS approved.

All CTEK cables have been designed for use with any Mode 3 charging point, up to 3-phase 32A. So even if your vehicle can only handle a Single phase 16A charge, you can safely charge it with any CTEK cable. This means you can buy a CTEK EV cable with higher output capability now, safe in the knowledge that you can still use it in exactly the same way if you upgrade your EV in the future.

CABLE GUIDE

	PLUG TYPE	MAX. AMPERAGE	CABLE ART. NO
1 PHASE 7.4 kW	TYPE 1 	Up to 32A	40-322
1 PHASE 7.4 kW	TYPE 2 	Up to 32A	40-324
3 PHASE 22 kW	TYPE 2 	Up to 32A	40-323

CTEK charging cables must only be used to charge electric cars (EVs) to Mode 3 charging stations in accordance with the ISO 17409 standard and IEC standard 61851. Never use an extension cord with a charging cable.

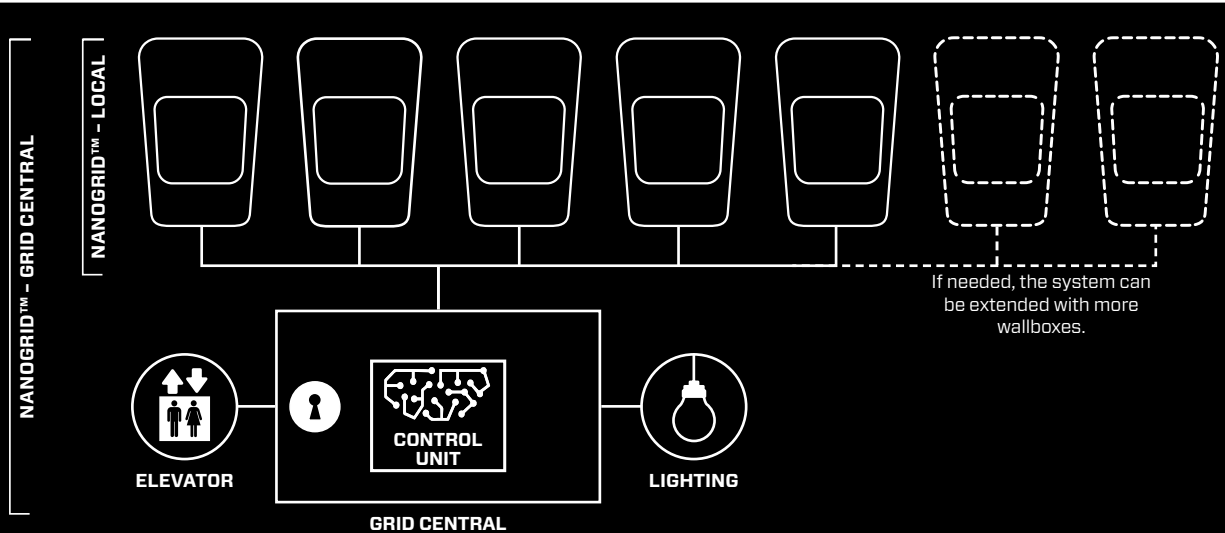
EV RANGE



* EV cable 22 kW: 1-hour charging up to 100km EV range, depending on EV model and charger.
EV cable 7.4 kW: 1-hour charging up to 37km EV range, depending on EV model and charger.



NANOGRID™ LOCAL AND GRID CENTRAL



NANOGRID™ LOAD BALANCING

This is NANOGRID™, our load balancing system. It's a smart EV charging solution that protects the power grid from overload so, you don't need to worry about tripping the main fuse. NANOGRID™ is available in three different types of load balancing to suit your needs.

NANOGRID™ - LOCAL

Our local load balancing is handled directly from the charge control unit and in a selected "master unit". All devices are connected by ethernet cable to a common switch. The load balancing can then be set as desired and against a given maximum power in the EV charger site. Our load balancing works without an internet connection because its managed locally between the chargers.

Perfectly suited for: tenant, companies, parking etc.

NANOGRID™ - GRID CENTRAL

With our external appliance Grid Central, load balancing can take other important consumers into account such as elevator, ventilation, lighting etc. The system keeps track of other consumers via transformer measurement. Our Grid Central is a compact appliance cabinet that contains control unit, energy meter and trafo measuring.

Perfectly suited for: Larger parking, real estate, industries etc.

NANOGRID™ - HOME

With our popular home load balancing you never have to worry about the main fuse again. An extra energy meter is installed at incoming feed which then "talks" via modbus communication to the EV charger. The size of the main fuse is specified in the charge control unit, the charging is then dynamically adjusted and the house has always priority.

Perfectly suited for: Villa, cottage, guest house etc.

NANOGRID™ - HOME



CHARGE PORTAL

CHARGE PORTAL gives charging stations the ability to monitor, load data collection, deploy payroll solutions, getting alarms and automatically forward information to national mapping services. CHARGE PORTAL makes monitoring and checking charging stations much easier for customers.

- Can be accessed from any web browser
- Scalable platform from small to large sites
- Easy to use interface for EV user administration
- Operation and maintenance application for system monitoring and configuration
- Accounting application, showing charge session information
- System statistics presented in clearly designed diagrams
- System alarm notifications
- Remote software updates
- Supports OCPP and Green eMotion standards



CTEK is a Swedish company with a well-earned reputation for ground breaking innovation. We've combined our research and development expertise with cutting edge electric vehicle charging technology to create exciting new products for the e-mobility sector.

