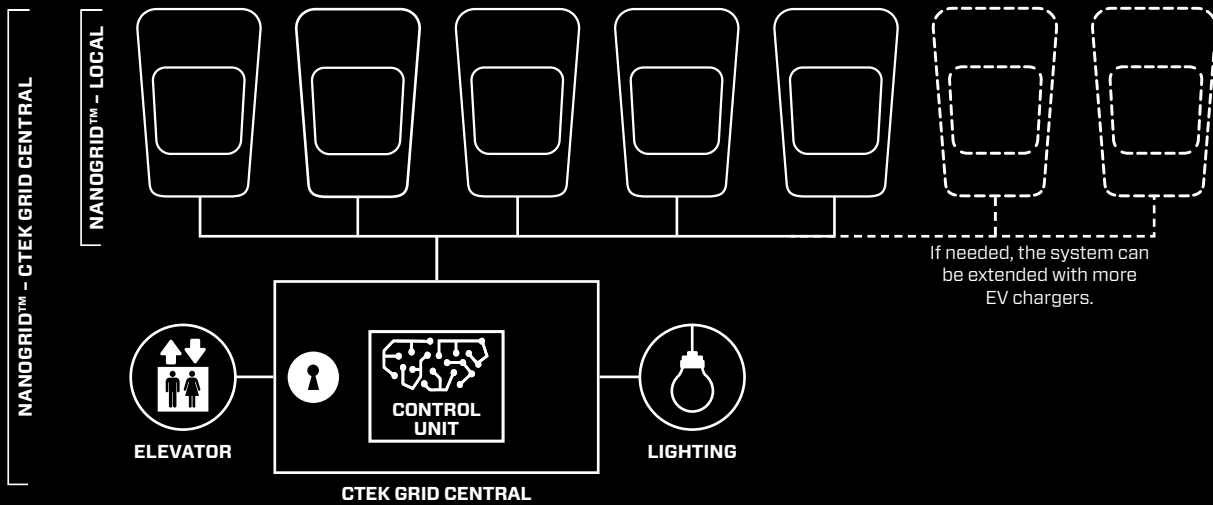


**NANOGRID™ LOCAL AND GRID CENTRAL**



# THREE LEVELS OF 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 AND CTEK GRID CENTRAL (CGC)**

This is a long-term investment for safe, reliable and hassle-free EV charging. GRID CENTRAL is a separate device that contains all the load balancing technologies. This box manages the charging stations as well as external loads such as lighting, ventilation, elevator and much more. With our unique load balancing system, important electrical equipment in the parking environment can be prioritized to protect the power grid from overload.

**WHY CTEK GRID CENTRAL?**

Mains overload can occur when several electric cars are charging simultaneously and, in some cases, the fuses could trip. With GRID CENTRAL, you can avoid a costly redevelopment of the existing power grid.

- CTEK GRID CENTRAL
- Load balancing between several devices
- Load balancing at home

**EASY TO INSTALL IN THE PROPERTY**

The system measures the grid that enters the property and controls the power outlets in the charging stations. The size of the main fuse is fed against the grid control board. This is all our system needs to ensure the stability of power throughout the property network.

**AUTHORIZED ELECTRICIAN**

Please ensure that only a qualified and trained electrician is used to install the charging stations and GRID CENTRAL.

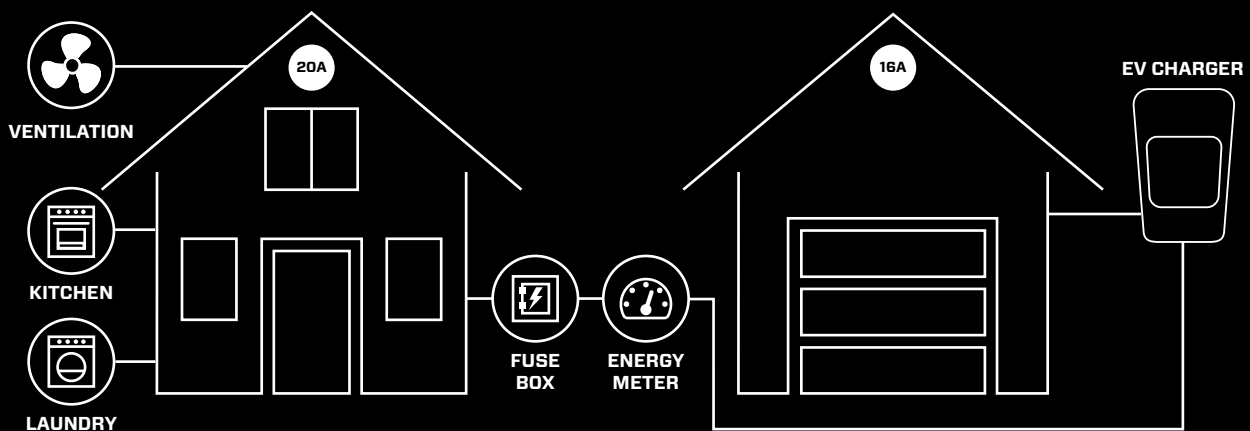
### **LOAD BALANCING BETWEEN SEVERAL DEVICES**

When several EVs charge at the same time, a load balancing system is needed to avoid overload. If there is any possibility of overload, the system will automatically adjust the power to the charging stations or even turn them off completely. With load balancing enabled, the EV charge will be limited to the maximum allowable current. When the power is being controlled by load balancing, charging might take a little longer but the fuse will not trip.

### **ETHERNET COMMUNICATION**

The load balancing system is based on Ethernet communication between the wallboxes. Power and an Ethernet cable is connected to each device when the system is installed. The stations are connected in a common switch. The system does not need to be connected to the internet to work because local communication between the devices is sufficient for the system to work efficiently.

### **NANOGRID™ - HOME**



### **LOAD BALANCING AT HOME**

This protects the main fuse during EV charging. With CHARGESTORM CONNECTED and load balancing for your home, you don't need to worry about tripping the main fuse. Power to the charger will automatically be set so there is no risk of overload.

CHARGESTORM CONNECTED gives you the option to mount an additional energy meter on the incoming feed. The energy meter is wired to the charging station's control board so if load balancing is activated, it automatically adjusts and optimizes the car's charge, depending on how much power the house draws.

Our load balancing solution protects your home's power grid from overload while charging your EV safely and efficiently.

### **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)