

CTEK

# WIRELESS LOAD BALANCING GATEWAY

*NANOGRID™ AIR is a wireless energy meter gateway, that delivers a cost-effective, dynamic load-balancing solution. Designed to work with the award-winning CTEK NJORD® GO portable EV charger\*, it will protect your main fuse and automatically adjust and optimise available power to charge your Electrical Vehicle (EV).*

## **WIRELESS LOAD BALANCING - MADE EASY**

NANOGRID™ AIR will automatically balance your home's energy load safely at any time of day, so you can charge your EV while your appliances still get the power they need. It utilizes your home Wi-Fi network to communicate with your NJORD® GO EV charger, ensuring your main fuse is not tripped when you are charging your EV.

Simple to install and easy to maintain, it's a smart load balancing solution that simply plugs into your smart energy meter, using the meter's P1 or HAN port.

It's configured using the CTEK App, that also controls your NJORD® GO, so you've got complete communication and control of your EV charging through one single, dedicated App. Energy data from your smart energy meter or NJORD® GO can also be retrieved as real-time JSON-files, using your home Local Area Network (LAN) - for use with third party applications such as Smart Home systems.

And as NJORD® GO is a portable charger, you could install one NANOGRID™ AIR at home and then one at your holiday home - and all you need to manage it is a smart phone and Wi-Fi.

- Dynamic load balancing for your NJORD® GO portable EV charger
- Wi-Fi communication
- Easy installation without the need for an electrician
- Includes P1/RJ12 and HAN/RJ45 cables
- 2 year warranty

## **WHAT IS LOAD BALANCING?**

Load balancing systems monitor energy usage in the home and to your CTEK EV charger to prevent tripping and mains overload.

If there is more demand for power in your home, load balancing will divert energy from the EV charger to the home - typically during times of high usage such as morning and evenings.

When the home demand decreases - overnight, for example - load balancing diverts more power to the EV charger. This also means you can take advantage of off peak energy rates to save you money and charge at maximum power without risking outages due to EV charging.

\*You might have noticed that we call the NJORD® GO 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.

## NANOGRID™ AIR



### TECHNICAL DATA

ARTICLE NUMBER	40-542
MODEL NUMBER	3007
CHARGING METHOD	Mode 2
CHARGING CATEGORY	AC charging
POSITIONING	Portable, For wall mounting*
LOAD BALANCING	Enables loadbalancing for NJORD® GO
INPUT	P1 – RJ12 connector HAN – RJ45 connector Auxiliary power – USB mini (only for service)
POWER CONSUMPTION	Max 250 mA @ 5V (P1 interface), Max 1441 mA @ 12V (HAN interface)
OUTPUT	WiFi, 2.4 GHz
FREQUENCY	2402 MHz to 2482 MHz
RF OUTPUT POWER MAX	+20 dBm (100 mW)
AMBIENT OPERATING TEMPERATURE	-30 °C to +50 °C
COOLING	Natural convection
ALTITUDE	<2000m
NET WEIGHT (UNIT WITH CABLES)	120 g
ENCLOSURE DIMENSIONS (L X W X H)	101 x 64 x 32 mm
ENCLOSURE MATERIAL	Plastic
ENCLOSURE COLOUR	Black
RFID READER	No
USER INTERFACE	LED symbols, Push button
CONNECTIVITY	Wi-Fi
APP SUPPORT	CTEK App for Android and IOS
COMPLIANCE	CE, RED
APPROVAL	Download the Declaration of Conformity from <a href="http://www.ctek.com">www.ctek.com</a>
DEGREE OF PROTECTION	IP20
CABLE TYPE	P1 RJ12, 1 m HAN RJ45, 1 m
WARRANTY	2 years

### NJORD® GO - MODE 2 EV CHARGER

NJORD® GO is a portable, Mode 2, 11kW EV charger that gives you fast, reliable EV charging at home, or when you're on the move. It's simple to use, with no installation necessary – simply plug the unit into your 3-phase, 16A CEE socket for charging.

The free to download CTEK App, gives control over charging and charge scheduling, as well as access to the latest software/firmware updates.

### 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)

\*Magnet included for fixing against steel cabinets

All products and product specifications are subject to change without notice, to improve reliability, function or design. In the event of product error, we reserve the right to inspect the product and verify the fault. All product returns are subject to our standard warranty terms.

**CTEK** | E-MOBILITY