# NB POD

FULLY INTEGRATED BMS

65 KWH LITHIUM-ION BATTERY

INTEGRATED PROTECTIONS

LOAD LEVELING

PEAK POWER SHAVING

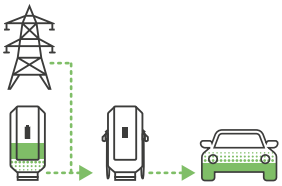
## THE COMBINATION OF DESIGN AND STORAGE

NB POD is an outdoor storage system, robust and attractive, designed with durability, reliability and ease of maintenance. NB POD integrates a 65 kWh and 100 kW lithium-ion, and allows easy connection with any DC charger in the Power Electronics product range. It is a completely autonomous system, which integrates protections and the control of the battery system. NB POD allows reducing the contracted power of the recharging infrastructure and to store energy in periods of low demand to pour it out in periods of high demand.

# OPERATION MODES

**MODE 1**
NB POD charging from the grid

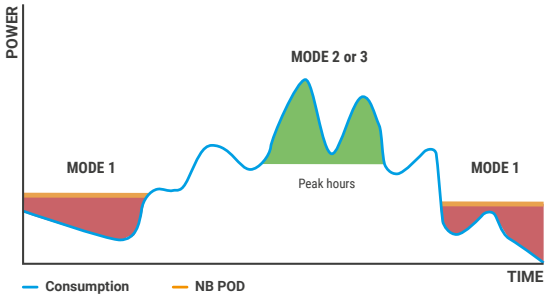
**MODE 2**
Vehicle charging from NB POD



**MODE 3**
Vehicle charging from NB POD + Grid

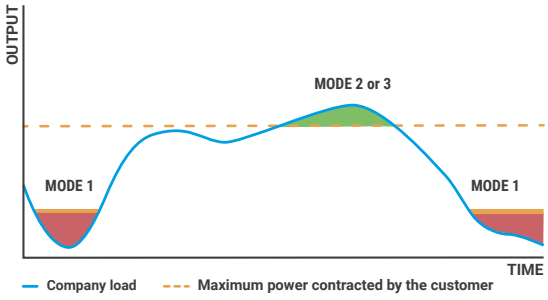
### Load leveling

NB POD is able to store energy during periods of low demand from the grid, in order to later use this energy to charge vehicles when when the price per KWh is high. This has the benefit of using the battery stored energy at a higher market price during peak periods.




### Peak power shaving

By delivering stored energy to the charger during periods of high demand, it reduces the burden on the distribution network and increases significantly its efficiency. Energy is stored during periods of low demand increasing the load on the grid. During peak periods this stored energy is used to charge electric vehicles. In addition the use of NB POD allows the charger's owner to reduce the total power contracted required and therefore a cost reduction.




## NB POD

| | | |
|---|---|---|
| **BATTERY** | Battery technology | Lithium-ion |
| | Battery capacity | 65 kWh |
| | Battery power | 100 kW |
| **RACK MANAGEMENT UNIT** | BMS communication protocol | Modbus TCP, Modbus RTU |
| | Protections | Fully integrated |
| | | Over-voltages / Under-voltages |
| | | Over-currents / Short-circuits |
| | | Over-temperatures |
| **GENERAL DATA** | Dimensions [mm] | 870 x 790 x 1800 |
| | Dimensions [ft] | 2.85 x 2.60 x 5.90 |
| | Degree of protection | NEMA 3R - IP54 |
| | Enclosure color [1] | White (RAL 9016 - microtexture painting) / Front colour black |
| | Operating temperature | From -25ºC to 50ºC (optionally, from -30ºC to 50ºC) |
| | Relative humidity | From 4% to 95% |
| | Maximum altitude (above sea level) | 2000 m |
| | Cooling system | Heating, ventilation and air conditioning |
| | Communications | Ethernet, RS485 |
| | Interface | Status LED indicator |
| | | Emergency stop (optional) |

[1] Consult with Power Electronics for other options.