



NB POD

FULLY INTEGRATED BMS

54 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 54 kWh and 54 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.

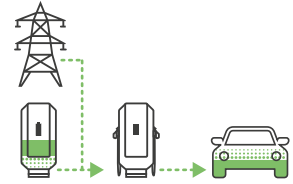
OPERATION MODES



MODE 1
NB POD charging from the grid



MODE 2
Vehicle charging from NB POD



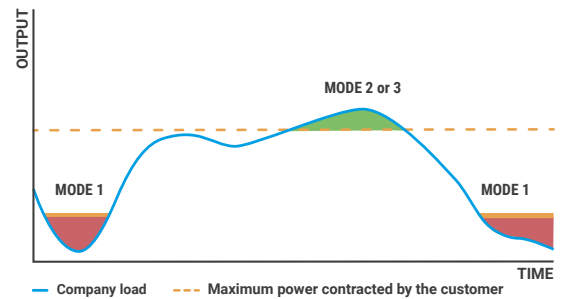
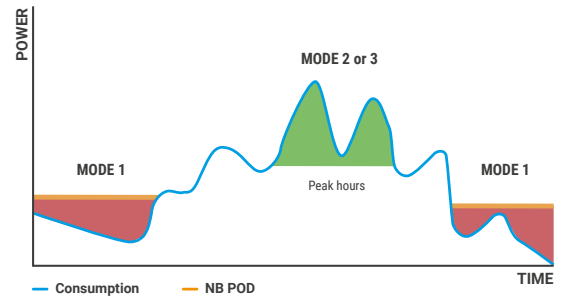
MODE 3
Vehicle charging from NB POD + Grid

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 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	54 kWh
	Battery power	54 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 colour ^[1]	White (RAL 9016 - microtexture painting) / Front colour black
	Operating temperature	From -25°C to 50°C (optionally, from -30°C to 50°C)
	Relative humidity	4% - 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.