

IMAGINE A HYBRID OR FULL ELECTRIC BUS, TROLLEYBUS, TRAM OR LOCOMOTIVE WITH EXTRAORDINARY FEATURES SUCH AS:

- Extremely long cycle life, at least 25 000
- Wide operating temperatures from -50° to 65°C without battery heaters
- Instantaneous high charge and discharge power, up to 7C

Nano power solution uses Altairnano's battery modules, which are ideal for hybrid or full electric transportation vehicles.

WE GUARANTEE:



HIGH PERFORMANCE
and excellent fuel efficiency



LOW NOISE AND EXHAUST EMISSIONS
which contribute to sustainability and operator comfort



BATTERY LIFETIME = LIFETIME OF VEHICLE
There is no need for battery replacement, which brings reduced cost of ownership and operator comfort



SUPERIOR SAFETY
and reliability

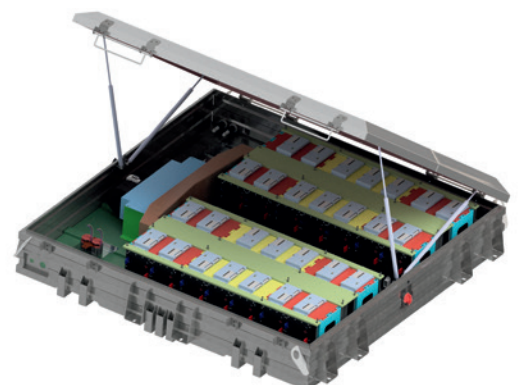


LOW ENERGY AND SERVICING COSTS

NANO POWER HIGH POWER TRACTION BATTERY PACK LTO 42KWH

Battery pack includes:

- 28 pcs. Altairnano 24 V 70 Ah Gen IV modules
- Advanced Battery Management System
- Thermal Management System for optimal battery conditions (air conditioned, forced ventilated)
- Homologation ECE R100
- IP protection from IP 22 to IP 65 based on cooling system
- Two options available: inside vehicle and roof installation



BATTERY PACK

- Battery system life time = No need to replace battery system within the vehicle life time
- Wider temperature range
- Longer cycle life
- Symmetrical C-rate charge/discharge ideal for regenerative braking applications

TRACTION BATTERY TITAN-IN

PERFORMANCE CHARACTERISTICS	
Voltage range	476 - 770 V
Nominal energy	42kWh
Length x Width x Height	1512 mm x 773 mm x 810 mm
Weight	1045 kg
IP Degree	IP43
Homologation	ECE R100.02, ECE R10.05
Max continuous charge current	500 A
Max continuous discharge current	500 A
Cooling system	Forced ventilation / aircondition



TRACTION BATTERY TITAN-UP

PERFORMANCE CHARACTERISTICS	
Voltage range	476 - 770 V
Nominal energy	42kWh
Length x Width x Height	2000 mm x 2000 mm x 362 mm
Weight	1045 kg
IP Degree	IP65
Homologation	ECE R100.02, ECE R10.05
Max continuous charge current	500 A
Max continuous discharge current	500 A
Cooling system	Forced ventilation / aircondition

