



- **More energy available.**

The Lithium battery has a discharge capacity of 95% without affecting the life of the battery compared to lead that should not discharge more than 70%.

- **Extended life.**

Working in the same conditions the number of lithium cycles is between 4-5 times higher than the number of lead cycles.

- **Improvement of internal logistic processes.**

The possibility of installing the charger in any place of the facilities offers great potential for the optimization of all internal logistics processes.

- **Lower operating cost.**

Polaris Lithium batteries have a 30% increase in the energy efficiency of charging / discharging with respect to lead-acid batteries

- **Monitoring and tracing.**

Our batteries have a monitoring system that allows the owner to know at all times the parameters of consumption and use of the machines.

- **No daily replacement of a second battery is necessary.**

Especially useful for machines that work with two shifts. The possibility of partial loads allowing short stop charges allows a 24 hour use of the machine.

Technical Data	48V / 300 Ah	48V / 400 Ah	48V / 500 Ah	48V / 600 Ah
Nominal Energy content	15.360 Wh	20.480 Wh	25.600 Wh	30.720 Ah
Nominal Capacity	300 Ah	400 Ah	500 Ah	600 Ah
Nominal Voltage of Battery	51,2 V	51,2 V	51,2 V	51,2 V
Nominal Voltage of truck	48V	48 V	48 V	48 V
Cell chemistry	Lithium / iron phosphate			
Operating Temperature (1)	-10 °C to 55 °C (no cold storage)			
Operating temperature of charging	0 °C to 40 °C			
Protection Rating	IP65			
Life Cycle DOD 80 %	5.000			
Dimensions and Weight	According to machine data sheet			