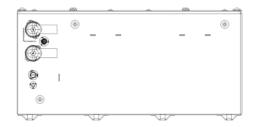
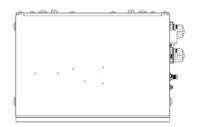
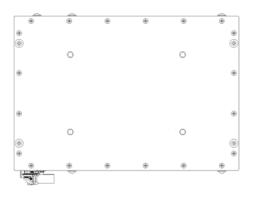


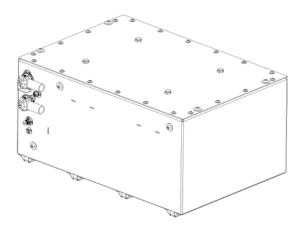
Polaris Lithium 48V

Urban Series BUS









More energy available

The Lithium battery has a discharge capacity of 95% without affecting its lifespan, compared to lead-acid batteries which should not discharge more than 70%.

Extended life

Working in the same conditions, the number of cycles for lithium batteries is 4-5 times higher than the number of cycles for lead-acid batteries.

Improvement of internal logistic processes

The possibility of installing the charger anywhere in the facilities offers great potential for optimising all internals logistics processes.

Lower energy costs

Ours Polaris lithium batteries have a 30% increase in the energy efficiency in charging/discharging process compared to lead-acid batteries.

Monitoring and Tracing

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

· You won't need a second battery

Especially useful for machines that work with two or three shifts. The possibility of partial charges during short stops allows the machinery to be use 24 hours a day.





Technical Data Urban Series BUS

Battery model	48V / 315 Ah	48V / 420 Ah
Technology	Lithium / Iron phosphate (LiFePO4)	
Nominal voltage	51,2 V	51,2 V
Rated capacity	315 Ah	420 Ah
Rated energy	16,128 KWh	21,504 KWh
№ of Cycles at 80% SOH	5000	
Discharge		
Discharge cut off voltage.	43,2 V	
Recommended discharge current (0,5C)	160 A	210 A
Maximum discharge current (at 1C)	315 A	420 A
Fuses	300 A	400 A
Charge		
Max charging voltage	57,6 V	
Recommended charging voltage	Range 55,2 V - 56,8 V	
Recommended charging current (0,7C)	210 A	290 A
Temperature		
Charging temperature	0 ºC to 55 ºC	
Discharging Temperature	-20ºC to 55ºC	
Mechanic		
Connections	1 set of bolt connectors	
Protection Rating	IP65	
Dimensions and weight	According to the technical sheet of the machine	
Security		
Battery Management System (BMS)	Built-in integrated BMS	
Communication	CAN bus + Pin Pilot	
Balanced	Passive	
Monitoring		
GPRS system	GPRS and GSM	

Complience and Regulations

Electromagnetic Compability (EMC) 2014/30/EU Low Voltage Directive 2014/35/EU RoHS Directive 2011/65/EU Product safety device 2001/95/CE Regulation UE 2023/1542 UNE-EN 62919:2022 UNE-EN 62620:2015/A1:2023 EN 61000-6-3:2021 UN 38.3



