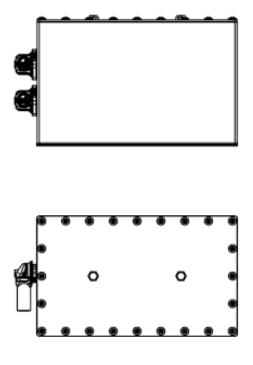
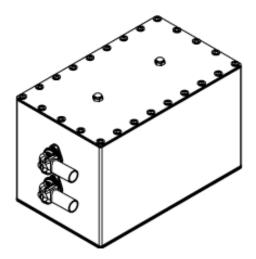


# **Polaris Lithium 48V**

**Urban Series** 







#### • 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.

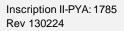


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# Technical Data Urban Series

Battery model	48V / 105 Ah
Technology	Lithium / iron phosphate (LiFePO4)
Nominal voltage	48 V
Rated capacity	105 Ah
Rated energy	5,040 KWh
Nº of Cycles at 80% SOH	5000
Discharge	
Discharge cut off voltage.	40,5V
Maximum discharge voltage	54 V
Recommended discharge current (0.5C)	50 A
Maximum discharge current (at 1C)	100 A
Fuses	250 A
Charge	
Max charging voltage	54,00 V
Recommended charging voltage	Range 51,75 V - 53,2 V
Recommended charging current (0.7C)	70 A
Temperature	
Charging Temperature	0 ºC to 55 ºC
Discharging Temperature	-20 ºC to 55 ºC
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, Yasaki connector
Balanced	Passive
Monitoring	
GPRS system	optional
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	LE



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