



NEW

Natrium-(Sodium) Ion-Cells (Na⁺)



MATERIAL ADVANTAGES

- » Uses abundant raw materials such as sodium, iron and carbon.
- » Resource-stable technology with high raw material availability.



HIGH RATE

- » High charge/discharge rates and strong performance at low temperatures.
- » Reliable performance across an extremely wide temperature range.



HIGH SAFETY

- » Extremely safe chemistry, even when overcharged or mechanically damaged.
- » Can fully discharge to 0 V and recharge – ideal for safety-critical applications.



NEW: Natrium-(Sodium)-Ion-Cells

JAUCH NA+

Long-term designed
8.000–10.000
-10°C ~ 55°C
-40°C ~ 60°C

VS

Life time
Cycles
Charge
Discharge

LiFePO₄

Up to 10 years
More than 2.000 times
0°C ~ 55°C
-20°C ~ 60°C

MATERIAL ADVANTAGES

Sodium-ion batteries use a cell chemistry based on widely available raw materials. They are completely free from lithium, cobalt, or nickel and instead use globally available raw materials such as sodium, iron, and carbon. This supports stable supply chains and reduces dependence on critical raw materials.

HIGH RATE

Thanks to their outstanding rate capability, sodium-ion batteries reliably deliver high performance – even in extreme temperatures. They enable fast charging and high discharge currents while maintaining their performance in severe cold or extreme heat. This makes them particularly suitable for applications with dynamic power demands.

HIGH SAFETY

The robust cell chemistry of sodium-ion batteries offers an exceptionally high level of safety. Even in cases of overcharging, deep discharge, short circuit, or mechanical damage, there is no risk of fire or explosion. The batteries can be discharged down to 0 V and then recharged as normal – a crucial safety advantage compared to many lithium-based systems.

» Ready to upgrade? Get more information [here](#).



CYLINDRICAL CELLS

CELL TYPE	DIAMETER	LENGTH	VOLTAGE RANGE	DISCHARGE RATE	RATED CAPACITY
NaCR-18650	18mm	65mm	1.5-4V	8C	1.3Ah
NaCR-21700	21mm	70mm	1.5-4V	8C	2.0Ah
NaCR-33700	33mm	70mm	1.5-4V	8C	5.0Ah
NaCR-33140	33mm	140mm	1.5-4V	8C	10.0Ah
NaCR-46145	46mm	145mm	1.5-4V	8C	20.0Ah

PRISMATIC CELLS

CELL TYPE	HEIGHT	WIDTH	LENGTH	VOLTAGE RANGE	DISCHARGE RATE	RATED CAPACITY
NaCP-39148102	39mm	148mm	102mm	1.5-4V	6C	50.0Ah
NaCP-40130208	40mm	130mm	208mm	1.5-4V	6C	80.0Ah
NaCP-50160118	50mm	160mm	118mm	1.5-4V	6C	80.0Ah
NaCP-50160153	50mm	160mm	153mm	1.5-4V	6C	100.0Ah
NaCP-71173208	71mm	173mm	208mm	1.5-4V	6C	160.0Ah

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