



High Performance & Long Life

Delivers over 2000 cycles at 90% Depth of Discharge (DoD), consistent power with low degradation rate

Environment & Safety Focused

IP20-rated-suitable for indoor applications

Robust & Compact Design

Enclosure: CRCA

Connectors: Terminal block

Smart Connectivity Options

RS485, CAN

Battery Management System (BMS)

15S100A intelligent BMS, real-time protection against overcharge, over-discharge, short circuit, temperature spikes, and thermal runaway,

Technical Data

Model	NATRIUM-Na -45140
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Main Parameter

Battery Chemistry		Na-ion
Capacity (Ah)		140
Nominal Voltage (V)		45
Operating Voltage (V)		22-58
Nominal Energy (kWh)		6.72
Usable Energy (kWh)		6
Charge/Discharge Current (A)	Recommended	+70/-70
	Max.	+100/-100
	Peak(25°C)	+100/-100

Other Parameter

Recommend Depth of Discharge	90%
Dimension (L*W*H, mm)	496 x 561 x 266
Weight Approximate(kg)	85
IP Rating of Enclosure	IP20
Operating Temperature	0-55
Recommend Operating Temperature (°C)	Charge: 0-55, Discharge: -20-60
Storage Temperature	At 50% SOC, 25-45°C
Humidity	90% RH
Altitude	<2000 m
Cycle Life	2000
Application	Telecommunication
Warranty Period	5 years
Energy delivered over lifetime (kWh)	10080
Parallel configuration	15 batteries

DC Usable Energy test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

Description of the battery

The NATRIUM 45140 battery is the product engineered for telecommunication applications. The system integrates an intelligent Battery Management System (BMS) that provides monitoring of cell voltages, current, temperature, passive balancing and supports paralleling option.