



Sodium Ion Starting Battery

Safer, Stronger, Go Longer

www.aesonpower.com.au

ABOUT US

About Us

Aeson Power is an Australian leader in advanced battery technology, delivering reliable sodium-ion automotive batteries, customized ESS, and high-performance energy solutions for automotive, residential, commercial, industrial, and utility-scale applications. We provide cutting-edge energy technology solution to meet diverse global needs.

Manufacturing Capabilities

Aeson Power delivers safe, high-quality products consistently. Our seven manufacturing centers and secure supply chains combine with rigorous quality control to ensure every product meets our stringent standards.



90

Production Lines



30 GWh

Annual Production Capacity



1.1M m²+

Area Covered



7

Manufacturing Centers

Certifications



Sodium Ion Technology

Sodium Ion Technology will provide you with many benefits. Its energy is derived from one of the most clean and common materials on the planet – salt (Sodium Chloride = NaCl). Its performance exceeds any lead battery and is like a lithium battery.

However, it is different in some key areas, chiefly it does not suffer from very cold or very hot temperatures, and crucially, it does not suffer from thermal runaway, which results in battery fires.



Why Sodium-Ion Batteries?

Technical Landscape of Mainstream Cathode Materials

Positive Electrode Technology Routes	Advantages	Disadvantages
Layered Oxides (NFM)	High energy density	Poor safety, high cost, and poor cycle life
Polyanion Compounds(NFPP)	Good cycle life	Low energy density
Prussian Blue Analogs (PBA)	High energy density	Difficulty in removing moisture during manufacturing, and toxic gases generated under specific conditions

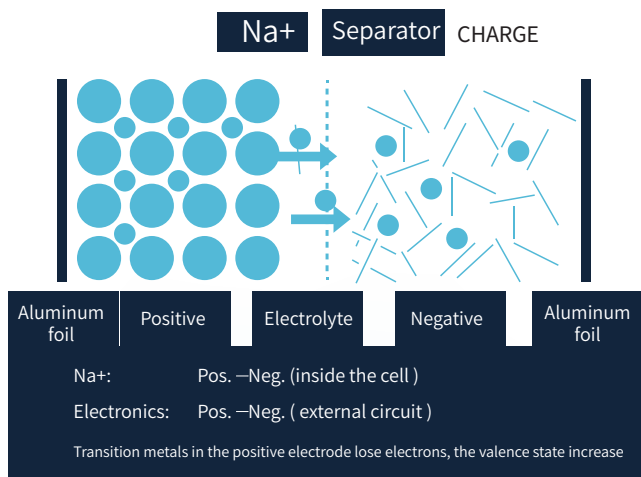
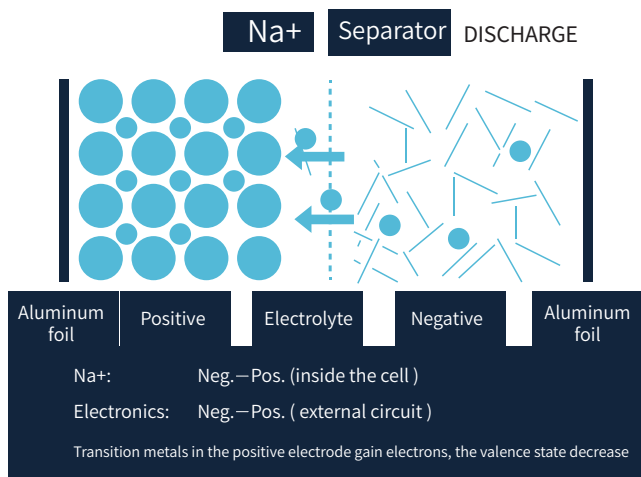
Lead-Acid, Lithium, and Sodium-Ion Batteries Comparison

	Lead Acid = Pb	LFP	NMC	NFPP
Energy Density (Wh/kg)	30~50	120~200	200~300	100~130
Cycle Life	> 700	5000~6000	2500~5000	>5000
Voltage Range	1.5~2.4V	2.5~3.65V	2.8~4.3V	1.5~3.65V
High-Temperature Performance	Moderate	Moderate	Poor	Good
Low-Temperature Performance	Poor	Poor	Good	Good
Cost	Low	Relatively High	High	Low

Sodium-ion Starting Batteries

Working Principle

Sodium-ion starting batteries store and release electrical energy by moving sodium-ion between positive and negative electrodes.



Sodium-ion Cell Materials

Positive Electrode: Poly-anionic compounds (NFPP)

Negative Electrode: Hard carbon

Electrolyte: NaPF₆

Separator: PP/ PE

Shell: PP+Aluminium+Nylon

Tab: Aluminium

ADVANTAGES OF SODIUM-ION STARTING BATTERY



Safe/Fire Resistant
Thermal Stability



High Temperature
Operation up to 80°C



Long Warranty



Recovers from 0 Volts
Without Severe Damage



80% Depth of
Discharge @ 25°C



Fast Charge/Discharge



Recycling Friendly



Use Lithium Charger



Non Toxic



Maintenance Free



No Acid



WATER or CO₂



Light Weight– 60% of a
Traditional Lead Battery



Super High Cycles



Vibration Resistance
Improved



High Energy Across
the Volt Range

SODIUM-ION BATTERIES SERIES



StratoForse



StratoForse-SS



StratoForse-SS+



StratoForse-24V

What is StratoForse Series?

Strato comes from the Greek stratos (στρατός), meaning “army” or “layer”. In modern use (e.g., stratosphere), it conveys elevation, stability, and high performance. Our sodium-ion cathode material provides a unique 3-D layer for reliable strength.

Forse is a stylized form of the Latin-derived fortis (via Italian forza), meaning “strong”, “forceful”, or “powerful”.

StratoForse suggests “elevated power” or “layered strength”—ideal for a sodium-ion battery brand.

Passenger car



StratoForse

StratoForse-SS

StratoForse-SS+

1 Container:

PC+ABS, accommodation and fixation of internal structures

2 Lid:

PC+ABS

3 Cells:

Sodium-ion cells (2.85V per cell), 4 cells in series

4 Fix kit:

Holding cells and control bar

5 Fuse:

Automatic circuit break during extreme current

6 Terminals:

Copper/aluminum terminal



StratoForse

Start battery



Safe

Fire Resistant



2700Cycles

@50%DoD



FAST

Recharge



Temp.

Operation up to 80°C



60%

Lighter than lead-acid



0V

Recovery



Vibration Resistance

Improved



120000

Start-stop cycles

StratoForse Model	Capacity (Wh)	Voltage (V)	CCA (A)	Dimensions (mm) L * W * H (TH)	Weight (Kg)	Case Size
H4/LN1	198	12	360	207*175*190(190)	3.5	L1
L2-400L	240	12	450	242*175*190(190)	4.0	L2
NS40L	198	12	350	196*127*200(220)	3.5	NS40
NS60L	198	12	370	238*129*200(220)	3.7	NS60
NS60-Pro	240	12	420	238*129*200(220)	4.0	NS60
55D23L	240	12	450	232*173*200(220)	4.0	D23L
55D26L	240	12	450	260*173*200(220)	4.5	D26L
55D26R	240	12	450	260*173*200(220)	4.5	D26R
80D31R	312	12	520	306*173*200(220)	5.0	D31R
95D31L	396	12	650	306*173*200(220)	5.9	D31L
95D31R	396	12	550	306*173*200(220)	5.9	D31R
95D31R-Pro	594	12	800	306*173*200(220)	7.7	D31L



StratoForse-SS

Stop-Start battery



Safe

Fire Resistant



3000 Cycles

@50%DoD



FAST

Recharge



Temp.

Operation up to 80°C



60%

Lighter than lead-acid



0V

Recovery



Vibration Resistance

Improved



180000

Start-stop cycles

StratoForse- SS Model	Capacity (Wh)	Voltage (V)	CCA (A)	Dimensions (mm) L * W * H (TH)	Weight (Kg)	Case Size
Q85L	396	12	650	232*173*200(220)	5.5	D23
S95L	480	12	720	260*173*200(220)	6.5	D26
H5/LN2	396	12	650	242*175*190(190)	5.6	L2 AGM
H6/LN3	480	12	750	278*176*185(185)	6.5	L3 AGM
H7/LN4	480	12	800	315*175*190(190)	6.7	L4 AGM
H8/LN5	594	12	850	354*175*190(190)	8.0	L5 AGM
H9/LN6	720	12	950	394*175*190(190)	9.5	L6 AGM



StratoForse-SS+

Stop-Start battery with extra 10Ah and 5 year warranty



Safe

Fire Resistant



3000 Cycles

@50%DoD



FAST

Recharge



Temp.

Operation up to 80°C



60%

Lighter than lead-acid



0V

Recovery



Vibration Resistance

Improved



180000

Start-stop cycles

StratoForse-SS+ Model	Capacity (Wh)	Voltage (V)	CCA (A)	Dimensions (mm) L * W * H (TH)	Weight (Kg)	Case Size
H6/LN3	594	12	850	278*175*185(185)	7.7	L3 AGM



Commercial



StratoForce-24V

1 Container:

PC+ABS, accommodation and fixation of internal structures

2 Lid:

PC+ABS

3 Cells:

Sodium-ion cells (2.85V per cell), 8 cells in series

4 Fix kit:

Holding cells and control bar

5 Fuse:

Automatic circuit break during extreme current

6 Terminals:

Copper/aluminum terminal



StratoForse-24V

Start battery replaces 2 × 12V with 1 × 24V



Safe

Fire Resistant



2700Cycles

@80%DoD



FAST

Recharge



Temp.

Operation up to 80°C



60%

Lighter than lead-acid



0V

Recovery



Vibration Resistance

Improved



24V Pack

All-in-One Design

StratoForse -24V Model	Capacity (Wh)	Voltage (V)	CCA (A)	Dimensions (mm) L * W * H (TH)	Weight (Kg)	Case Size
H5/LN2-24	480	24	450	242*175*190(190)	6.1	L2
H9/LN6-24	960	24	850	394*175*190(190)	11.5	L6



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