

StratoForse-24 **Start Battery**



Sodium Ion Technology Datasheet v1.0

Thank you for choosing the Aeson Power sodium-ion (NFPP) technology for your vehicle.

Application

The StratoForse Series are automotive sodium-ion start batteries suitable for cars, SUV's, 4x4's and light commercial vans. They are not designed for UPS/standby or deep cycle applications.

	Item	Features	Specifications		
		Series	StratoForse-24		
		Application	Automotive 24V start battery		
		Technology	Sodium Ion (Na)		
	Series Characteristics	Cathode Material	Polyanionic		
		Chemistry	$Na_4Fe_3(PO_4)_2(P_2O_7)$ (NFPP)		
		Communication	No BMS or Bluetooth		
		Warranty Period	Refer to Series Warranty Document		
		Nominal Voltage	24V		
		Cell Voltage	2.85V		
		Cell Quantity	8		
		Nominal Capacity (Ah) Refer to Model List			
		Usable Capacity	100%		
	el l	Cold Cranking Amps (CCA)	Refer to Model List		
	Electrical	Reserve Capacity (9.0V min.)	Refer to Model List		
		Battery Capacity @ 25°C (6.0V min.)	Refer to Model List		
		Battery Capacity @ 25°C (10.5V min.)	Refer to Model List		
		Energy Refer to Model List			
		Engine Starts	N/A		



	Cycles	2,700 – 50% DoD @ 1C @ 25°C		
	Internal Resistance	<30 mΩ		
	Voltage Range (Working)	12V ~ 29.2V		
	Maximum Voltage	30.4V		
	Charge Voltage (Recommended)	29.2V		
	Absorption Voltage	N/A		
	Float Voltage	27.4V		
	Charge Rate - Max.	1C		
Electricas	Discharge Rate – Max.	2C		
Electricas	Charging Temperature Range	0°C ~ +80°C		
	Discharging Temperature Range	-30°C ~ +80°C		
	Storage Temperature Range	Short term: -30°C ~ +45°C Long term: 0°C ~ +40°C		
	Self-discharge Rate	≈ 3% per month		
	Transportation Voltage	0.0V		
	Charger Type (Recommended)	Lithium, but do not use recondition mode. You can also use lead battery, but do not use de-sulphation or recondition mode. Constant current or Power Supply mode is also recommended.		
	Dimensions (L x W x H)	Refer to Model List - mm		
	Weight	Refer to Model List – kg		
	Case Material	Polypropylene (PP)		
	Case Hold Down Type	Base side or End		
Mechanical	Carry Handle	Yes		
iviechanicai	Terminal Types	SAE AP (standard) JIS (Standard or Small)		
	Terminal Layouts	L = Left Hand Negative R = Right Hand Negative (facing front)		
	Terminal Material	Aluminium with Copper		
	IP Rating	65		



Mechanical	Circuit Protection	Internal fuse		
	Parallel Connection ONLY	Yes, up to 3 batteries		
	Series Connection ONLY	Yes, up to 2 batteries		
	Maintenance Free	Yes		
Special	Fully Sealed	Yes		
Features	Acid Free	Yes		
	No Spill	Yes		
	Fire Safety	High. Cathode material structural rigidity + electrochemical stability		
	Environmental Rating	High. Recyclable Materials		
Certification	Certifications, Standards Compliance and Registration	CE-EMC, UN38.3, IEC61000, EESS, IEC62619* E/N 50342*, JB/T 12666-2015* * Compliant - passed testing, but no certification because no specific international Sodium Ion standard yet.		
	Over-charge protection	N/A		
BMS	Over-discharge protection	N/A		
BIVIO	Short-circuit protection	N/A		
	Temperature protection N/A			

This Model List shows all the models in the Series to provide information specific to the individual batteries.

Model: StratoForse-24	Cold Cranking Amps: CCA	Marine Cranking Amps: MCA	Energy : Wh	Reserve Capacity Minutes: (18.0V min.)	Battery Capacity @ 25°C: Ah (12.0V min.)	Dimensions (L x W x H): mm	Weight ± 0.5kg: Kgs
H5/LN2-24	450	550	480	42	20	242 x 175 x 190	6.6
H9/LN6-24	850	1000	960	86	40	394 x 175 x 190	12.0



Contact Details

This product is manufactured by Aeson Power Pty Ltd (ABN: 94 631 781 121) of:

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