

STARTAUX 12V 8D / Data Sheet

SoluThium
StartAux™

12V 300AH LITHIUM IRON PHOSPHATE DUAL-PURPOSE BATTERY

1. PRODUCT OVERVIEW

The StartAux 12V 8D is a next-generation LiFePO4 battery purpose-built for Heavy-Duty Trucks, Marine vessels, and RV power systems.

Twice the Power, Half the Weight: Standard Group 8D dimensions with 2x the usable energy and 50% less weight (36 kg)—a seamless upgrade that instantly boosts performance without modifying your system.

Supercap Load Dump Protection: A built-in Supercapacitor Buffer absorbs alternator voltage spikes, safeguarding sensitive vehicle electronics and ensuring stable, clean power delivery.

Cloud-Powered Insight AI™: Real-time data sync to the cloud enables AI-driven predictive maintenance, helping you prevent failures before they happen and eliminating unexpected downtime.

Intelligent Connectivity: Integrated Bluetooth and IoT-ready architecture provide instant visibility into battery health, performance metrics, and GPS location—anytime, anywhere.

Smart Thermal Management: Automatic cold-weather pre-conditioning ensures dependable operation in harsh climates, delivering reliable performance down to -30°C (-22°F).

Always Ready, No Matter What: Smart load control plus Force-Start recovery means the battery is always ready. Whether for critical backup or unexpected situations, your power system stays dependable and trustworthy.

Active Cell Balancing: A high-efficiency active equalizer continuously redistributes energy between cells, maximizing usable capacity and extending overall battery lifespan.



3. MECHANICAL SPECIFICATIONS

Dimensions (LxWxH)	20.55x9.85x9.08 in 522x250x231 mm
BCI Group Size	Group 8D
Weight	Approx. 36 kg (79.4 lbs)
Terminal Type	SAE Post
Case Material	Powder Coated Steel
Enclosure Protection	IP67

2. ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Rated Capacity	300 Ah
Rated Energy	3.84 kWh
Max-Charge Voltage	14.4 V
Discharge Cut-off Voltage	10 V
Max Continuous Charge Current	200 A
Max Continuous Discharge Current	200 A
Peak Cranking Current (5S)	2000 A
Charge Temp	0°C ~ 55°C (32°F ~ 131°F)
Discharge Temp	-30°C ~ 60°C (-22°F ~ 140°F)
Cycle Life @ 80% DOD	> 3000
Self-Discharge Rate / Month	< 5%

4. SMART ENERGY MANAGEMENT

 Instant Local Access	 Cloud Command Center
 GPS Location Tracking	 Thermal Pre-conditioning
 Parallel Support	 Load Dump Solution
 Active Balancing	 Jump Start Support
 Insight AI™ Analytics	 Ultimate Dual-Purpose

5. TARGET APPLICATIONS

Truck, Marine & Yachting, Bus, RV

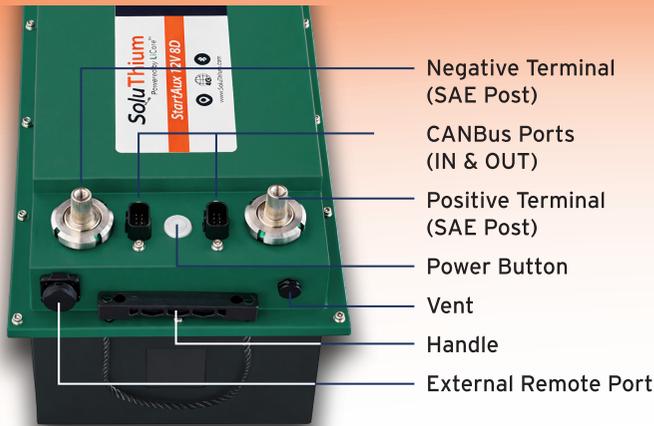
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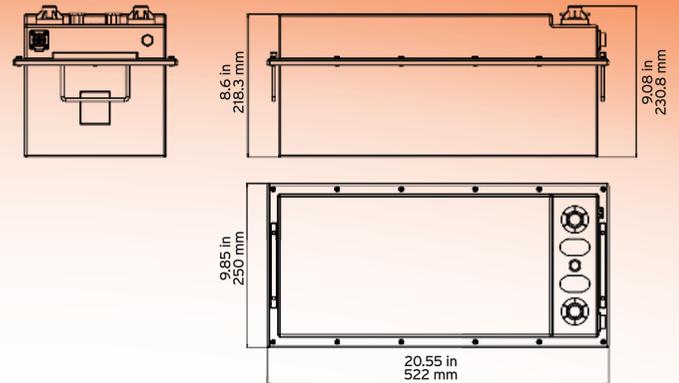
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Engineering & Interfaces

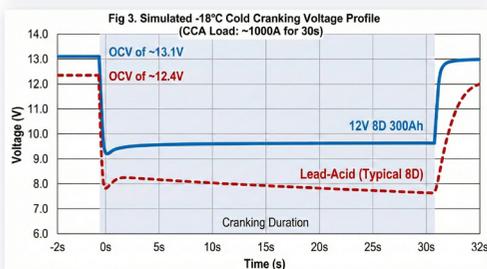
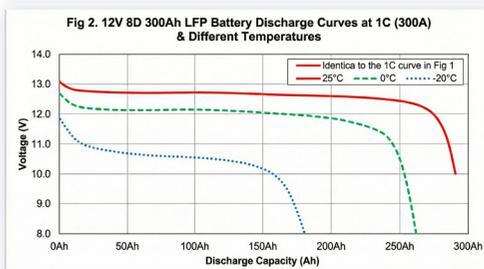
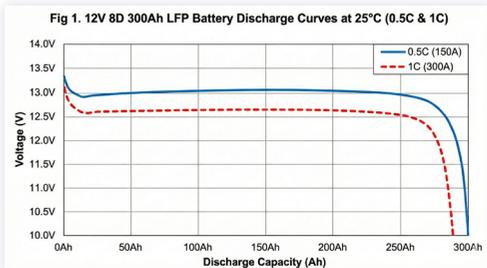
6. TERMINALS & INTERFACES



8. DIMENSIONS



7. PERFORMANCE CURVES



9. COMPLIANCE & SAFETY

CERTIFICATIONS

UL 1973 (Pending)
IEC 62619 (Pending)
CE / UKCA (Pending)
UN38.3 (Certified)

10. WARRANTY & SUPPORT

Standard Warranty: 5 Years Limited Warranty*

Technical Support: Lifetime remote technical support via email and phone.

The StartAux 12V 8D is more than a battery—it is a smart power platform for connected fleets.

With exceptional power, intelligence, and reliability in a true drop-in 8D size, it turns traditional energy storage into a high-value, data-driven asset. Powered by LiFePO4 performance, a telemetry-ready Digital BMS, and seamless cloud connectivity, SoluThium gives fleet operators real-time visibility, predictive diagnostics, and total operational confidence.