

# STARTAUX 12V G31 / Data Sheet

SoluThium  
**StartAux**

## 12V 150AH LITHIUM IRON PHOSPHATE DUAL-PURPOSE BATTERY

### 1. PRODUCT OVERVIEW

The StartAux 12V G31 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 31 dimensions with 2x the usable energy and 50% less weight (19 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)	13x6.8x9.6 in 330x173x245 mm
BCI Group Size	Group 31 (G31)
Weight	Approx. 19 kg (41.8 lbs)
Terminal Type	SAE Post, 3/8 inch-16
Case Material	Powder Coated Steel
Enclosure Protection	IP67

### 2. ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Rated Capacity	150 Ah
Rated Energy	1.92 kWh
Max-Charge Voltage	14.4 V
Discharge Cut-off Voltage	10 V
Max Continuous Charge Current	150 A
Max Continuous Discharge Current	150 A
Peak Cranking Current (5S)	1800 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	> 4000
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, Bus, RV

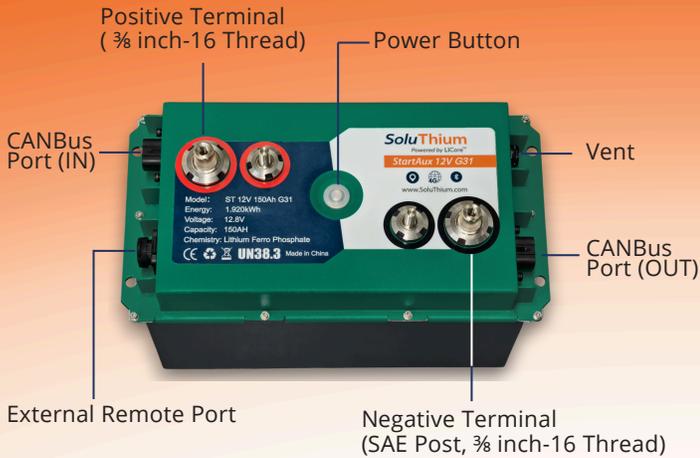
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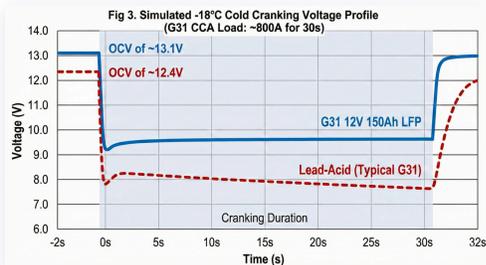
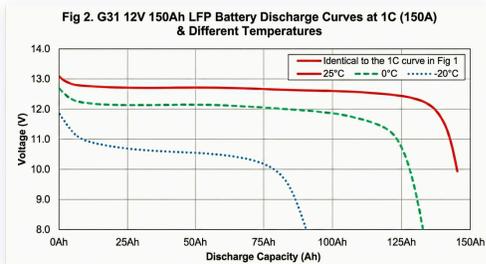
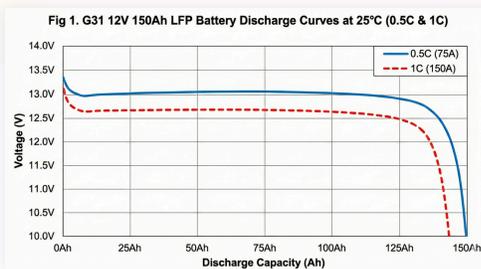
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### Engineering & Interfaces

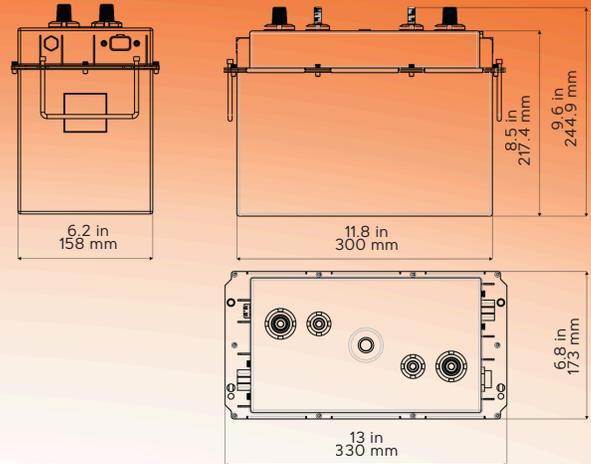
#### 6. TERMINALS & INTERFACES



#### 7. PERFORMANCE CURVES



#### 8. DIMENSIONS



#### 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 G31 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 G31 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.