

# Equity Research & Financial Projection Report: Expion360 Inc. (NASDAQ: XPON)

Prepared by ISG Research

*fred@investorsummits.co*

*March 2025*

## 1. Executive Summary

### Company Overview

Expion360 Inc. (\$2.45) with an enterprise value is approximately \$171,280, is a leading provider of lithium iron phosphate (LiFePO<sub>4</sub>) batteries and accessories, primarily serving the recreational vehicle (RV) and marine markets. The company focuses on delivering high-quality, reliable energy storage solutions tailored to the needs of outdoor enthusiasts and professionals. As of October 9, 2024, following a 1-for-100 reverse stock split, Expion360's stock trades under the symbol XPON.

### Recent Developments (Q3 2024 - Q1 2025)

- **Financial Performance:** In Q3 2024, Expion360 reported revenue of \$1.4 million, marking an 8.7% sequential increase from Q2 2024 but a 26.5% decrease compared to the same period in the prior year. The net loss for the quarter was \$8.8 million, primarily due to lower net sales and higher other expenses related to changes in the fair value of warrants and settlement expenses.
- **Product Launches:** The company introduced next-generation Group 27 and GC2 series LiFePO<sub>4</sub> batteries, featuring proprietary Vertical Heat Conduction™ (VHC™) internal heating technology. Deliveries commenced in May 2024. Additionally, the Edge™ battery, available in 12.8V and 51.2V configurations, was launched with a slim profile to maximize space without compromising performance.
- **Financial Initiatives:** On August 8, 2024, Expion360 closed a public offering with gross proceeds of approximately \$10.0 million, aimed at enhancing liquidity and supporting product development initiatives.

## 2. Business Model & Market Position

### Core Business Model

Expion360 specializes in designing, assembling, and selling high-performance LiFePO<sub>4</sub> batteries and related accessories. The company's revenue streams are primarily derived from sales to OEMs, distributors, and direct-to-consumer channels, focusing on the RV and marine

sectors. Expion360 emphasizes innovation, quality, and customer-centric solutions to differentiate itself in the competitive energy storage market.

### Key Business Segments

- **Recreational Vehicles (RV):** Supplying advanced battery solutions to enhance energy reliability for RV users.
- **Marine:** Providing durable and efficient batteries for marine applications, ensuring optimal performance in demanding environments.
- **Residential and Industrial (Emerging):** Developing energy storage solutions for home and industrial applications, expanding market reach beyond traditional sectors.

### Industry Outlook

The demand for reliable and efficient energy storage solutions is on the rise, driven by the increasing adoption of renewable energy sources and the need for portable power in recreational and professional settings. The RV and marine markets are experiencing growth, with consumers seeking enhanced battery performance and longevity. However, challenges such as supply chain disruptions and fluctuations in raw material costs pose risks to manufacturers. Expion360's focus on innovation and quality positions it well to capitalize on these industry trends.

## 3. Financial Analysis

### Key Financial Metrics (Q3 2024 vs. Q3 2023)

|                    | Q3 2024 | Q3 2023 | % Change |
|--------------------|---------|---------|----------|
| Revenue            | \$1.4M  | \$1.9M  | -26.5%   |
| Gross Profit       | \$0.2M  | \$0.5M  | -60.0%   |
| Gross Margin       | 12.1%   | 25.0%   | -12.9pp  |
| Operating Expenses | \$2.1M  | \$2.3M  | -8.7%    |
| Net Loss           | \$8.8M  | \$1.8M  | +388.9%  |
| Cash Reserves      | \$3.3M  | \$3.9M  | -15.4%   |

### Financial Performance Breakdown

- **Revenue Decline**
  - XPON's revenue declined by 26.5% YoY due to a slowdown in the RV market and delayed orders as customers awaited new product launches.
  - The company needs diversification beyond RV and marine applications to sustain revenue growth.
- **Gross Profit & Margin Compression**

- Gross profit declined by 60%, and gross margin dropped from 25.0% to 12.1%.
- Reasons for margin decline:
  - Increased fixed overhead costs per unit due to lower sales volume.
  - Liquidation of non-core inventory.
- **Operating Expenses**
  - XPON’s operating expenses decreased by 8.7%, reflecting cost-control efforts.
  - Despite the reduction, expenses remain high relative to revenue, requiring further efficiency improvements.
- **Net Loss Surge**
  - Net loss increased by 388.9% due to:
    - Lower net sales and profitability.
    - Increased expenses related to warrant fair value changes and settlements.
- **Cash Reserves & Liquidity**
  - Cash reserves fell from \$3.9M to \$3.3M (-15.4%).
  - The company closed a \$10M public offering in August 2024 to bolster liquidity and fund product development.
  - Future funding rounds may be necessary to sustain operations if revenue growth remains weak.

#### 4. Financial Projections (FY2025 - FY2027)

|                    | FY2025E | FY2026E | % Change (YoY) | FY2027E | % Change (YoY) |
|--------------------|---------|---------|----------------|---------|----------------|
| Revenue            | \$5.0M  | \$7.5M  | +50.0%         | \$10.0M | +33.3%         |
| Gross Profit       | \$1.4M  | \$2.3M  | +64.3%         | \$3.2M  | +39.1%         |
| Gross Margin       | 28.0%   | 30.7%   | +2.7pp         | 32.0%   | +1.3pp         |
| Operating Expenses | \$6.0M  | \$6.5M  | +8.3%          | \$7.0M  | +7.7%          |
| Net Loss           | -\$4.6M | -\$3.5M | -23.9%         | -\$2.0M | -42.9%         |

## Key Takeaways & Risks

- **Revenue Growth Projections**
- **XPON forecasts a 17.5% CAGR (2025-2027) based on:**
  - Expansion into home energy storage and industrial markets.
  - Stronger OEM partnerships and distributor network growth.
  - Launch of new lithium battery products with advanced features.
- **Operating Expenses & Cost Efficiency**
  - Expenses will increase moderately as XPON scales production and expands R&D.
  - Margin recovery expected due to economies of scale and product mix improvements.
- **Cash Flow & Liquidity Risks**
  - XPON may require additional funding in 2025-2026 to support operations and expansion.
  - Stock dilution risk if new capital is raised through equity financing.
- **Market & Economic Risks**
  - RV and marine industry slowdown could impact revenue recovery.
  - Competition from larger lithium battery manufacturers remains a challenge.

## 5. Risk Matrix for Theriva Biologics, Inc. (TOVX)

| Risk Factor                | Impact Level | Probability | Mitigation Strategy   |
|----------------------------|--------------|-------------|---|
| Market Competition         | High         | Medium      | Differentiate products through innovation, proprietary battery technology (VHC™), and strategic partnerships with OEMs. |
| Revenue Concentration Risk | High         | High        | Expand into home energy storage, industrial, and off-grid applications to reduce dependency on RV and marine markets.   |
| Supply Chain Disruptions   | High         | Medium      | Maintain diverse supplier relationships, optimize inventory management, and   |

|                                 |        |        |   |
|---------------------------------|--------|--------|---|
|                                 |        |        | secure long-term agreements with key suppliers.   |
| Gross Margin Compression        | High   | High   | Implement cost controls, improve manufacturing efficiency, and enhance product pricing strategy to support profitability.                 |
| Liquidity & Capital Constraints | High   | High   | Pursue non-dilutive funding options, optimize cash burn rate, and manage operational costs to sustain financial flexibility.              |
| Technological Changes           | Medium | Medium | Invest in continuous R&D, patent protection, and product innovation to remain competitive in the lithium battery market.                  |
| Regulatory Compliance           | Medium | Low    | Engage with regulatory agencies, ensure compliance with safety standards (UL 1973 certification), and proactively monitor policy changes. |
| Economic Downturns              | High   | Medium | Diversify revenue streams, maintain strong financial discipline, and focus on essential-use battery markets to mitigate cyclical risks.   |

## 6. Valuation & Investment Thesis

### Valuation Analysis

### Comparable Company Analysis (Market Multiples)

| Company                               | P/S Ratio | EV/Revenue | P/B Ratio |
|---------------------------------------|-----------|------------|-----------|
| Expion360 Inc. (XPON)                 | 1.5x      | 1.2x       | 2.0x      |
| Peer 1 (Energy Storage Company)       | 2.0x      | 1.8x       | 2.5x      |
| Peer 2 (Lithium Battery Manufacturer) | 1.8x      | 1.6x       | 2.2x      |

- **P/S Ratio (Price-to-Sales):** XPON trades at 1.5x P/S, lower than industry peers, indicating a potential undervaluation if revenue growth materializes.
- **EV/Revenue:** XPON's 1.2x EV/Revenue suggests a lower valuation relative to peers, reflecting market concerns about profitability.
- **P/B Ratio (Price-to-Book):** XPON trades at 2.0x P/B, which is within a reasonable range compared to its competitors.

### Discounted Cash Flow (DCF) Valuation

- **Assumptions:**
  - **Discount Rate (WACC):** 14% (reflecting high risk)
  - **Revenue CAGR (2025-2027):** ~17.5%
  - **Long-Term Growth Rate:** 4% (aligned with industry trends)
  - **Projected Free Cash Flow (FCF):** Expected to turn positive in FY2027
- **Valuation Output:**
  - **Intrinsic Value Estimate:** \$3.00 - \$3.50 per share
  - **Current Price:** \$2.45 per share
  - **Upside Potential:** ~22-43% over the next 2-3 years

### Investment Thesis

#### Bull Case (Growth Potential)

#### Growing Lithium Battery Market:

- The global lithium battery market is projected to reach \$180B by 2030, driven by demand in energy storage, EVs, and portable power applications.
- XPON is well-positioned in the RV, marine, and home energy storage markets, which are expected to expand.

#### Product Differentiation & Innovation:

- Proprietary Vertical Heat Conduction™ (VHC™) technology enhances battery performance in extreme conditions.
- New Edge™ and Group 27/GC2 series LiFePO<sub>4</sub> batteries target premium markets, supporting higher margins.

### **Strategic Partnerships & Market Expansion:**

- XPON has expanded OEM relationships and distribution channels to improve sales reach.
- Entering the home energy storage market will diversify revenue streams beyond RV and marine applications.

### **Upcoming Catalysts for Stock Appreciation:**

- Revenue recovery from new product sales
- Expansion into home energy storage solutions
- Regulatory approvals and product certifications (UL 1973, CE, FCC, UN38.3)
- Potential acquisition or partnership announcements

### **Bear Case (Risks & Challenges)**

#### **Revenue Volatility & Market Dependence:**

- XPON's revenue has declined due to softness in the RV and marine markets.
- Heavy reliance on the RV sector exposes the company to cyclical downturns.

#### **Liquidity & Cash Flow Concerns:**

- The company reported a net loss of \$8.8M in Q3 2024 and may require additional funding.
- Potential stock dilution if XPON raises capital through equity offerings.

#### **Competitive & Pricing Pressure:**

- Larger battery manufacturers like Battle Born, RELiON, and Lion Energy have greater brand recognition and economies of scale.
- XPON must improve margins and differentiate through technology to remain competitive.

#### **Supply Chain & Cost Risks:**

- Lithium prices and supply chain disruptions could impact production costs and profitability.
- XPON must secure long-term supply agreements to mitigate cost volatility.

### **Investment Recommendation**

#### **Short-Term (2025):**

- Hold due to market volatility and liquidity challenges.
- Monitor new product launches, revenue recovery, and funding sources.

## Medium-Term (2026):

- Speculative Buy if revenue growth stabilizes and XPON expands into new markets.
- Key indicators: profit margin improvement, cost control, and strategic partnerships.

## Long-Term (2027+):

- Strong Buy if XPON achieves profitability and sustains revenue growth in home energy storage.
- Potential valuation re-rating if XPON becomes a leader in portable power and residential battery markets.

# 7. Conclusion & Strategic Considerations

## Conclusion

Expion360 Inc. (XPON) is navigating a challenging yet opportunistic phase, balancing market headwinds with technological advancements and expansion efforts. The company remains a recognized player in the lithium battery industry, particularly in the RV and marine segments, while actively diversifying into home energy storage and industrial applications.

Despite a 26.5% YoY revenue decline in Q3 2024 and widening losses, XPON is investing in product innovation and distribution expansion to drive future growth. However, liquidity constraints and reliance on external financing remain significant risks, and the company's success depends on improving margins, increasing sales volume, and managing operating expenses efficiently.

The next 12-24 months will be critical, with revenue stabilization, funding decisions, and market penetration into new segments shaping the company's trajectory. Investors should closely monitor cash flow management, customer adoption trends, and potential equity dilution risks before making long-term commitments.

## Strategic Considerations & Actionable Recommendations

### 1. Expand Revenue Beyond the RV & Marine Sectors

- Increase penetration into home energy storage and industrial battery markets to mitigate reliance on seasonal and discretionary RV demand.
- Pursue utility partnerships for energy storage solutions in residential and commercial applications.
- Explore international market opportunities, especially in regions with high off-grid power demand.

### 2. Strengthen Product Portfolio & Innovation Pipeline



- Leverage proprietary Vertical Heat Conduction™ (VHC™) technology as a competitive advantage.
- Develop next-gen lithium batteries with higher energy density and durability to differentiate from competitors.
- Expand product bundling with solar power solutions for an integrated energy approach.

### 3. Enhance Cost Management & Improve Margins

- Optimize supply chain partnerships to secure lithium resources at more stable prices.
- Reduce overhead costs by improving operational efficiencies and exploring outsourcing opportunities.
- Adjust pricing strategies to balance affordability with margin protection.

### 4. Strengthen Financial Position & Capital Efficiency

- Seek strategic partnerships or joint ventures to fund expansion without excessive shareholder dilution.
- Pursue non-dilutive financing options such as government grants, green energy incentives, and venture debt.
- Improve cash flow management by securing long-term contracts with distributors & OEMs.

### 5. Increase Market Awareness & Customer Adoption

- Expand brand visibility through targeted marketing & collaborations with RV, marine, and solar energy influencers.
- Strengthen direct-to-consumer (DTC) sales channels via e-commerce and enhanced dealer networks.
- Leverage regulatory approvals (UL 1973, CE, UN38.3) to build credibility and capture institutional buyers.

## Upcoming Catalysts Affecting XPON's Stock Performance

- **Q4 2024 & FY2025 Revenue Growth Reports** – A key indicator of business turnaround and demand recovery.
- **New Product Launches & Market Adoption** – Early traction in home energy storage and industrial markets could validate XPON's expansion strategy.
- **Liquidity & Capital Structure Updates** – If XPON secures funding without excessive dilution, investor confidence may improve.
- **Strategic Partnerships & Licensing Deals** – Collaborations with larger firms in energy storage or electric vehicle markets could enhance XPON's growth outlook.
- **Macroeconomic & Regulatory Developments** – Policy support for clean energy and battery technology could create new revenue opportunities.

## Final Thoughts

Expion360 Inc. has long-term growth potential, but short-term financial challenges create uncertainty. Its ability to execute its diversification strategy, improve gross margins, and secure stable funding will determine its success in the next 12-24 months. Investors should remain cautious yet optimistic, closely watching financial health, sales trends, and external partnerships.

**Investment Stance:** HOLD with a speculative BUY for long-term investors willing to endure volatility for potential upside.

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