



OsecoElfab

*A Partnership
that Works*

Lithium-ion battery protection

**Confidence in a safer, simpler, more
cost-effective battery design**

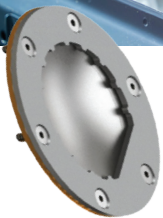
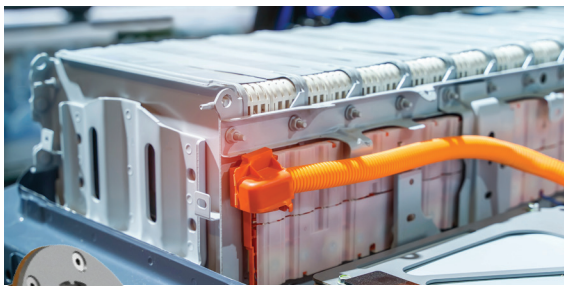
OsecoElfab offers safe, simple and cost-effective protection for battery enclosures, Energy Storage Systems and the containers used to house the batteries themselves. With rapid activation, full bore relief and a small footprint, our pressure relief solutions enable fast but controlled release of excess pressure, with no risk of shrapnel. Nearby equipment or vehicles remain undamaged and, more importantly, the lives of your personnel are protected.



Protect your Battery Energy Storage Systems (BESS) from explosion hazards with our explosion vents. When installed on top of the enclosure, the vents will burst at a predefined low burst pressure, releasing pressure and flames in a controlled manner. Explosion vents are activated from the pressure itself, and do not require electronic actuation. All our vents offer a tightened tolerance of ± 0.25 psig for increased accuracy at low pressures.

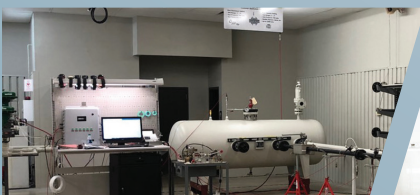
DESIGNED TO SUCCEED

Throughout our flexible product development process, we will work in collaboration with you and your project teams to design, develop and manufacture a customized pressure relief solution that integrates seamlessly with your application.



Our Battery Pack solutions offer a small footprint with minimal protrusion. They have been subjected to mil-spec requirements, and meet the demanding scenarios of the NATO 6T batteries.

- 95% operating ratios
- Low pressures
- Fast, 4 millisecond activation time
- Full bore opening
- World class low flow resistance (.29 KrG)



ASME Flow Labs in the US
(left) and UK (right)



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THE RIGHT SOLUTIONS

Our pressure relief devices help engineers and consultants working for lithium-ion battery manufacturers and integrators.

Our rupture discs, explosion vents and sensors mitigate the risk of damage and outgassing propagation by providing the safest solution possible, supported by expert testing and engineering services from trained and qualified pressure management engineers.

We offer engineering support and training with sizing, flow calculations and troubleshooting. With a global team, we can provide assistance whenever you need it, wherever you are in the world, giving you confidence that the disc will perform reliably in real-world conditions.



Energy Storage and Lithium-Ion Battery Protection

- *Custom solution designs*
- *Expert engineering support and training*
- *75 years' pressure safety experience*
- *Complete peace of mind*

Proven devices used for decades in the most critical Li-ion battery applications



We are experts on:

- Pressure Safety
- Industry Regulations
- Codes and Standards

We offer:

- Testing and Support
- Engineering Services Worldwide
- Full line of Rupture discs
- Custom Engineering
- Supply Chain Support



OsecoElfab is a leading provider of customized pressure relief solutions to OEMs and industrial customers. Our high-integrity rupture discs, vents and sensors protect people and equipment in precision industries such as aerospace, medical, and scientific research. Our Purpose is 'Protecting Life. Solutions for a Safer, Cleaner World'. We are committed to creating a safe, cleaner world, both today and for future generations. This means protecting life with innovative technology, and safeguarding plant, equipment, and the environment for decades to come.



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