



Megapack

Safe by Design

Megapack is designed to be one of the safest battery storage products of its kind.

Tesla's 15+ years of experience manufacturing batteries has informed every step of Megapack design and production. Thousands of units have been deployed around the globe, receiving extensive internal and third party testing to enhance safety for the communities they serve.



Low Impact

Each Megapack unit is self-contained, helping to avoid potential soil contamination. Operational noise levels are designed to minimize noise pollution.

In the unlikely event of a fire, the unit is designed to manage the event with limited environmental impact. Gases resulting from a Megapack fire are similar to those of a typical structure fire: hydrogen, carbon dioxide, carbon monoxide and methane.

Only trace amounts of acid gases are released during a fire. These gases, such as hydrogen fluoride, come from burning plastics, not battery cells. The concentrations are small enough that they are quickly diluted upon contact with the air, meaning there is no negative impact to air quality in the surrounding area.

Megapack units are designed to make it difficult for water to come in contact with the enclosed battery cells. Fire water runoff testing has shown no harmful levels of contaminants. (Note: Tesla's Emergency Response Guide recommends no direct water application to a Megapack fire.)

Although the risk of fire for any energy infrastructure is never zero, safety is our top priority. We continuously review, test and update our requirements and procedures ahead of industry standards.



Built-in Safety

Megapack is manufactured with hardware and software safety features that are designed and tested to help prevent system errors during its lifetime and, if they do occur, prevent them from escalating.



24/7 Monitoring

Megapack installations are remotely monitored by Tesla 24/7, allowing for early detection, diagnosis and troubleshooting of system errors while providing live support to first responders when needed.



Proactive Fire Control

Megapack is designed to prevent battery fires and be resilient if they occur. Fires are extremely rare. Testing shows that if one occurs, Megapack safety systems can control and contain a fire within the unit.



Live Support

Tesla is committed to ensuring the safety of first responders. By actively engaging with and providing educational resources to safety personnel, we are able to support a timely and appropriate response to all safety events involving Tesla products.