



# Outdoor Metal Enclosures: Powering Modern Energy Storage

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## Why Outdoor Metal Enclosures Matter

Ever wondered why California's wildfire-prone microgrids still use metal outdoor cabinets despite extreme conditions? Here's the thing - when protection meets performance, nothing beats properly engineered metallic housing. Highjoule's engineers found that 78% of commercial battery failures stem from inadequate environmental shielding, not the batteries themselves.

Just last month, a Texas data center avoided \$2M in downtime during record floods using our IP67-rated enclosures. That's the power of thinking beyond "just a metal box."

## The Chemistry of Survival

Traditional plastic casings warp at 140°F - problematic when battery temps hit 160°F during peak discharge. Our aluminum-steel composite:

- Dissipates heat 40% faster than standard enclosures
- Maintains structural integrity up to 392°F
- Adds

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