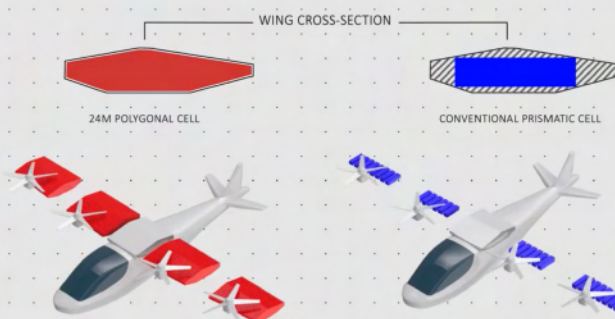


Today's standard lithium-ion battery wastes design space, adds weight, limits efficiency and compromises on safety. 24M ETOP challenges convention. This innovative electrode-to-pack manufacturing platform bypasses traditional cells and modules to deliver **chemistry and design freedom with record-breaking energy density.**

24M ETOP packages electrodes directly into the pack to prevent large fractions of inactive, non-charge-carrying materials, which reduce module and energy density in traditional cells. With packaging efficiencies of up to 80%, compared to the standard 60% or less, this new approach to cell production overcomes limitations for a more efficient, longer-lasting and safer battery.

The 24M ETOP platform streamlines multiple manufacturing processes into a single machine. To challenge larger market players, OEMs and manufacturers can lower costs and accelerate scaling by integrating 24M ETOP directly into existing assembly lines.

24M ETOP can fit into any space without the need for heavy metal cans, enabling unprecedented design flexibility and maximum energy density.



Ideal for high-voltage applications:

- Electric vehicles
- eVTOL, drones and aviation
- Large-scale grid batteries
- E-bikes and two-wheelers
- Consumer products

Benefits



Energy density & range



Safety



Costs



Design flexibility



Chemistry compatibility

24M ETOP

Electrode content up to 80% of pack volume enables **industry-leading energy density and 50% more range**

Eliminates unsafe electrode overlaps and large electrolyte pools while maintaining energy density

Streamlined manufacturing process **cuts costs by 40%** for GWh-level production

Combines in series and parallel to support battery packs of virtually any size, configuration, chemistry or voltage

Maximizes energy density across chemistries, including low-cost and next-gen cells

Traditional Li-ion Packs

Features packaging efficiencies of only 30-60%, limiting active material

Safety tradeoffs increase fire and explosion risk

Requires high capital investment and manufacturing expenses

Pack design is constrained by fixed cell voltages and capacities

Performance and design are constrained by chemistry

For purchase or licensing information, please contact sales@24-m.com.

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