



High Energy Density
Specific Energy of 145 Wh/kg to overcome any power challenge



Fast Charging
Full-charge in less than 1 hour enabling you to go sooner



Safety & Quality
Dedicated to the highest standards of safety and quality



Innovative Thermal Management
Reliably operational at temperatures as low as -20 °C



MARKET APPLICATIONS



Urban
Mobility



EVTOL

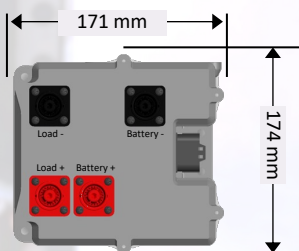


Fuel Cell/Hybrid
Applications

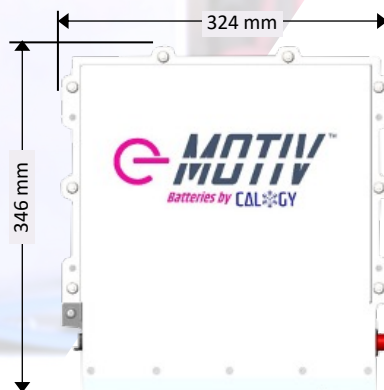


Industrial
Vehicles

CONTROL BOX DIMENSIONS



BATTERY DIMENSIONS



SPECIFICATIONS

CERTIFICATIONS & STANDARDS

MECHANICAL

| | |
|---------------------------|--------------------------------------|
| Terminal Type (SurLok) | 8 mm (Module) 10 mm (Control Box) |
| Installation Orientation | Horizontal / Vertical |
| Ingress Protection Rating | IP57 |
| Weight | 13,5kg |
| Thermal Management | Air-cooled with Uni.T |

| |
|----------------------|
| UL2580 (Cell) |
| UL2271 (Pack) (2025) |
| UN38.3 |
| CE (2024) |
| J1939 (2024) |

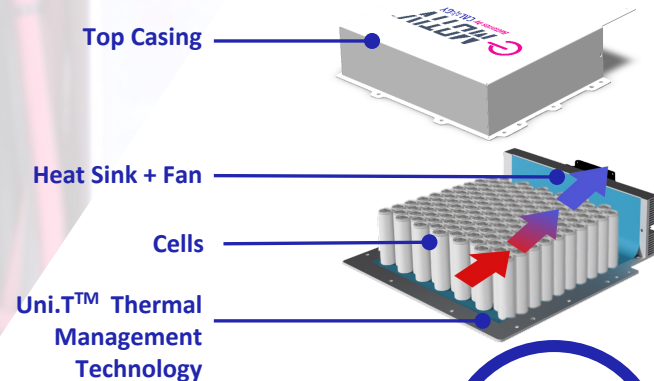
ELECTRICAL

| | |
|------------------------------|---|
| Cell Chemistry | Nickel Cobalt Manganese |
| Pack Voltage (Min/Nom/Max) | 39V/46.8V / 53.9V |
| Pack Energy | 2 kWh (42Ah) |
| Specific Energy | 145 Wh/kg |
| Continuous Current (@ 25 °C) | 125 A |
| Peak Current (@ 25°C) | 400A (30 sec) |
| Recommended Charge CCCV | 20A / 54.6V |
| Standard charge current | 20A@120VAC 40A@240VAC |
| Maximum charge current | 40A |
| Maximum charging voltage | 54.6V |
| Cycle Life (@ 25°C) | 1000 @ 80% DoD |
| Scalability | Up to 16 packs totals Max. 4 in series |

Leveraging innovative technologies to create durable, high-energy density, fast charging batteries for **NICHE MARKETS.**

OPERATIONAL

| | |
|---------------------------------|---------------|
| Fast-Charge Ambient Temp. (1 C) | -20°C to 30°C |
| Charge Ambient Temp. (C/2) | -20°C to 45°C |
| Discharge Ambient Temp. | -20°C to 40°C |
| Storage Ambient Temp | -30°C to 60°C |



SAFETY

| |
|---|
| Over temp protection @ cell level |
| Over charge protection @ cell level |
| Over discharge protection @ cell level |
| Over current protection @ cell level |
| Short circuit protection |
| Over temperature protection |
| Pre-Charge logic @Control box level |
| Contactor High and Low sides @Control box level |



If you have any questions, do not hesitate to contact us!