The Future of mobility is **Shared, Connected & Electric**

**Cube 72V, 25Ah Li-ion Fixed Battery**

A reliable high performance Li-ion battery for light electric vehicles

**Key Features:**
- Compatible with most existing electric 2W and 3W
- CAN enabled for vehicle & charging communication needs
- Ergonomic design enables easy access and easy charging or swapping experience
- Use of NCM cells for high energy density and cycle life
- Intelligent charging algorithm to enhance battery life
- Bluetooth based App connectivity for user interface
- Seamless integration with our cloud platform for remote management
- AIS 048 certified

**Performances:**
- High energy density – upto 223Wh/l
- Peak power tolerance of 4.3kW for 10 sec
- Cycle life of +1,000 cycles under nominal operating conditions
- Safety first with multi-level protection features
- Unibody AI extrusion designed for superior thermal performance
- Proprietary built-in battery management system (BMS) & power distribution unit (PDU)
- Works in heat, rain, sun – our batteries are all weather proof with IP67 certification
- Minimal self-discharge at 3%/month

**Applications:**
- E-Bikes
- E-Auto
- Small EVs
- Forklifts
- AGV

www.exicom-ps.com
# Technical Specifications

## General
- **Battery pack**: 25Ah, NMC chemistry
- **Rated energy**: 1.84 kWh (0.2C, 100% DoD at 25 °C)
- **Specific energy**: 141.7 Wh/Kg
- **Volumetric energy**: 222.8 Wh/l
- **Estimated life** (at 80% DoD and 35°C): 1,000 cycles

## Electrical Characteristics
- **Nominal voltage**: 72 Vdc
- **Charge current**: 12A (nominal)
- **Nominal charging time**: 2 hours
- **Discharge current**: 25A (nominal)
- **Peak discharge current**: 95A for 10 sec
- **Efficiency**: >97%
- **Connector Type**: Standard: Circular connector with 2 power pins and 4 signal pins; Optional: SBS-75X with 2 power pins and 4 signal pins (2CAN + 2 I/O)

## Environment & Mechanical
- **Operating temperature**: -10 to 50°C for charge and -10 to 60 °C for discharge
- **IP class**: IP 65
- **Humidity**: 0-95% (non-condensing)
- **Dimensions (w x d x h)**: 222 x 105 x 355 mm
- **Weight**: 13.81 Kg
- **Cooling**: Passive

## Protections
- Over/under temperature, over/under voltage, over current, short circuit, permanent hardware failure detection

## Communication Interface
- CAN Bus for vehicle and charger communication
- SD card for regular fixed battery data & alarm event logging
- Optional Bluetooth for mobile application dashboard showing real-time battery data
- Optional 4G telematics card for getting real-time battery performance data and remote programming capability

## Applicable Standards
- **Transportation**: UN38.3
- **Safety**: ARAI 048, UL2271
- **EMI/EMC**: EN61000-4-2 to -6
- **Environment**: ROHS complaint

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**Mobile App**

**Cloud Management System**

**High performance BMS**

[Images of mobile app, cloud management system, and high performance BMS]

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