



# DATASHEET

## Premium High Power 12S Series

### PRODUCT OVERVIEW

The Premium High Power 12S Series is engineered for the toughest drone applications demanding extremely high discharge currents at 48V class. Built with Amprius SA124, rated for 180A pulse discharge from a 5Ah cell with just 5mΩ internal resistance, these packs excel in rapid climbs and burst-load maneuvers, maintaining low voltage sag even under extreme transient loads.

### APPLICATIONS



**Commercial Drones**  
Agriculture, Cargo, Missions, Tactical



**Robotics**  
Warehouse, Cargo, Missions, Tactical

### CONNECTORS

For models with Smart BMS:

- **AS150U** Connector (Power + Communication)
- **Han® MPC30** Connector (DroneCAN support)
- **Han® MPC60** Connector (DroneCAN support)

For models without Smart BMS, providing cell balancing capability:

- **XT90** Connector (Power)
- **Molex Micro-Fit 16-pin** Connector (Balancing)

### PROTECTION FEATURES

Overcharge Protection  
Over-discharge Protection  
Overcurrent Protection  
Short Circuit Protection  
Temperature Monitoring and Protection

### COMMUNICATION INTERFACES

CANBUS  
RS485  
UART

### ADDITIONAL FEATURES

State of Charge (SOC) Estimation  
Cell Balancing  
Remote Monitoring Capability

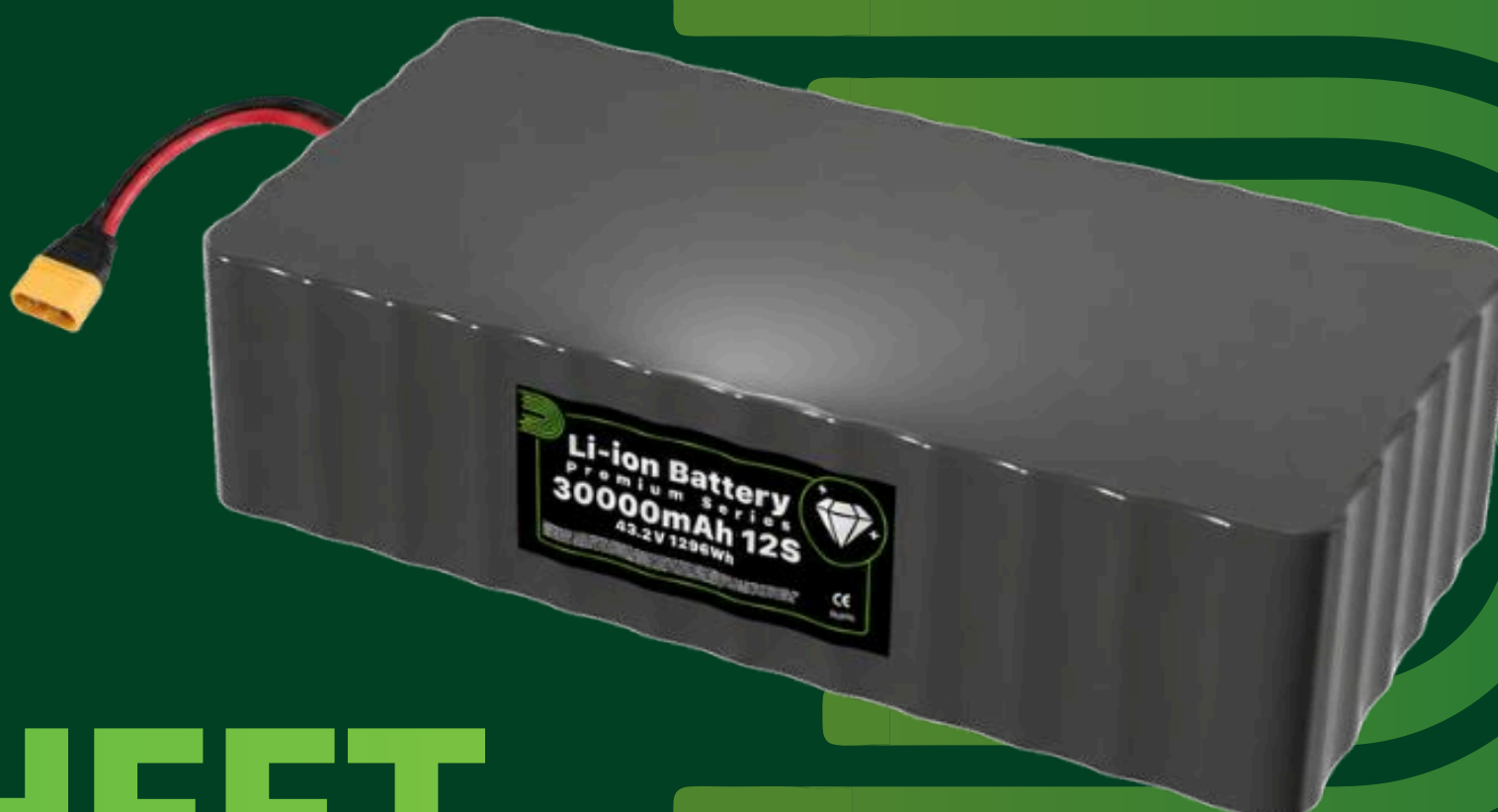
\*\* The above features apply only for battery models with smart BMS.



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