

6S 22000mAh Li-Po Agri Drone Battery

Model: HEB-6S-22000-22.2V

General Information

- Battery Type: Lithium Polymer (LiPo)
- Application: Agricultural Spraying Drones / Industrial UAVs
- Configuration: 6S1P (6 cells in series)
- Nominal Voltage: 22.2V
- Nominal Capacity: 22Ah (22,000mAh)
- Energy: 488.4Wh
- Weight: ~2420 g
- Dimensions: 205 × 90 × 66 mm
- Cell Chemistry: High Discharge LiPo – optimized for drone propulsion
- Cycle Life: 250+ cycles (at 80% DoD under standard conditions)

Performance Characteristics

- Discharge Peak Rate: 25C (550A peak)
- Continuous Discharge Rate: 15C (330A continuous recommended)
- Internal Resistance: ≤ 3 mΩ (entire pack)
- Max Temperature at Peak Discharge: ≤ 60°C
- Operating Temperature (Discharge): -10°C to +60°C
- Operating Temperature (Charge): 0°C to +45°C

Charging Parameters

- Standard Charging Current: 1C (22A)
- Fast Charging Capability: Yes (up to 2C, ~40 mins)
- Maximum Charging Voltage: 25.2V
- Charging Method: CC/CV (Constant Current / Constant Voltage)
- Balancer Connector: JST-XH 7-pin
- Main Discharge Connector: AS150U (Anti-Spark) or XT90 (Customizable)

Protection & Safety

- Over-voltage protection: Required in charger/BMS
- Over-discharge protection: Required in drone flight controller or BMS
- Short Circuit Protection: Fuse recommended at power module
- Vibration Resistance: Compliant with UAV standards
- IP Rating: IP54 (with proper enclosure) – optional sealing on request
- Compliance: ROHS / CE (optional certification upon bulk)

Recommended Use

- Compatible with 10L to 20L Agricultural Spraying Drones
- Ideal for drones using T-Motor, Jiyi, or similar propulsion setups
- Supports up to 20–25 minutes flight time with ~10kg payload (depending on motor-efficiency and weather conditions)