



A Division of  **SOLID ENERGIES.**

www.solidmasterbattery.com

SolidMaster 47.4V(6S)/32Ah: Solid-state Power for New-generation UAVs/Drones

Engineered for critical aerial operations, the SolidMaster 47.4V (~48V) solid-state battery delivers unmatched endurance and safety with military-grade compliance and quality assurance. Built on Solid Energies' proven solid-state technology, it empowers your UAV with:

Extended Operating Time: High energy density for longer flight duration and mission range.

Rapid Power Deployment: Supports high-power payloads and agile maneuvers with a 160A continuous discharge rate.

Uncompromising Safety: Solid-state architecture inherently eliminates leakage and thermal runaway risks.

Exceptional Longevity: Rated for 800+ cycles, this military-grade power source is built for a lower total cost of ownership.

Key Specs: 47.4V (12S) | 32Ah | 1530 Wh | 160A Continuous Discharge | 800+ Cycles.



Items	Specification
Model Number	SMDB-048-032
Rated/Nominal Voltage	47.4V (Cell Count: 12S1P); Operation Volage: 42.6V - 53.4V
Nominal Capacity	32Ah
Battery Energy Stored	1517Wh
Pack Energy Density	271Wh/kg
Max Continuous Discharge	160A (5C)
Max Pulse/Peak Discharge	320A (10C)
Max Charge	48A (1.5C); Charge Cut off voltage: 25.2V
Cycle Life	800 cycles (80+% SOH)
Dimensions	8.7" x 4.7" x 4.1" (220mm x 120mm x 104mm)
Weight	12.3 lbs (5.6 kg)
Operating Temp	Discharge: -20°C to +60°C; Charge: 0°C to +45°C
Storage Temp	-20°C~60°C; Storage Humility: <75%RH
Discharge/Charge Connector	AS150U