

PRODUCT SPECIFICATION SHEET

AeroVironment ABC-150 Battery Test System

PRODUCT OVERVIEW

The AeroVironment ABC-150 is the worldwide standard for testing advanced batteries, fuel cells, capacitors, and alternative energy technologies. Originally developed to support the GM Impact (first modern electric car), it is now used across automotive, aerospace, defense, and stationary power industries. Features dual independent channels, bi-directional power flow, and regenerative energy discharge capability.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Manufacturer	AeroVironment Inc. (now Webasto)
Model	ABC-150 Dual Channel
Power Output	Up to 125 kW
Voltage Range	8 to 445 VDC
Current Range	±530 ADC
Channels	Dual Independent (A & B)
Operation	Bi-directional (Charge/Discharge)
Regenerative Efficiency	>90%
Power Factor	>0.95
Current THD	<5%
Voltage Ranges	4 auto-ranging for optimal resolution
Current Ranges	4 auto-ranging for optimal resolution
Dimensions	45.5"W x 54.5"H x 41"D
Weight	1,400 lbs (635 kg)
Standards Compliance	IEC, ISO, UL, GB/T

KEY FEATURES

- Dual independent test channels
- Bi-directional power flow (charge and discharge)
- Regenerative energy return to grid (>90% efficiency)

- Built-in isolation contactors and pre-charge circuit
- Reverse polarity protection
- Real-time Ah and kWh measurement
- Auto-ranging voltage and current
- Industry-standard test system

APPLICATIONS

- EV/HEV battery pack development and testing
- Fuel cell testing and characterization
- Ultra/supercapacitor testing
- Powertrain component testing
- Hardware-in-the-loop simulation
- Production burn-in and life testing
- Defense and aerospace power systems
- Stationary energy storage testing

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