

AeroVironment™ Power Cycling and Test Systems

ABC-150

Dual Channel Cycling Station



The Original Power Cycling System

AeroVironment developed the ABC-150 to support the design and development of the drivetrain and subsystems of the GM Impact, the first modern electric car. The ABC-150 is now the worldwide standard for the testing of advanced batteries, fuel cells, capacitors and other alternative energy technologies in the automotive, aerospace, stationary power and defense industries. All AV power cycling systems are equipped with a real-time clock on the system's control board that enables measurement of Ah and kWh during cycling.

CATEGORY	APPLICATION	ABC-150
Battery Testing and Cycling	Battery Cell	
	Battery Module	
	Battery Management Systems (BMS)	•
	Battery Pack	•
	Production Testing	•
Simulation	Battery	•
	Powertrain	•
	Fuel Cell	•
	Hardware in the Loop	•
Energy Storage Charging and Testing	Fuel Cell	•
	Super & Ultra Capacitors	•
	Flywheels	•
Power Generation Equipment Testing	Electric Components	•
	Power Supplies	•
	Generators	•
	Stationary Power	•
	Inverters	•
	Military & Aerospace	•
	Life, Run-in, Burn-in	•
	Uninterruptable Power Supplies (UPS)	•
	Hybrid and Electric Vehicle Testing	Powertrain
Production Testing		•
Medium & Heavy-duty EVs (buses, trucks, military, locomotives)		

PRODUCT FEATURES			
INPUT RATING	3 Phase, 240Vrms		
CURRENT	335Arms		
FREQUENCY	60Hz (50Hz optional)		
ISOLATION TRANSFORMER	Requires 150KVA external isolation transformer		
POWER FACTOR	> 99%		
HARMONIC DISTORTION	< 3% THD; IEEE 519 Compliant		
MULTIPLE USER INTERFACES	Manual; Remote Operation System (ROS); DCOM Driver for LabVIEW; C++ and Visual Basic; CAN		
OPERATING RANGE			
Configuration	Voltage (Vdc)	Current (Adc)	Power (kW)
Independent	+8 to +420	-265 to +265	-125 to +125
Optional range	+420 to +435	-160 to +160	-70 to +70
	+435 to +445	-90 to +90	-40 to +40
Parallel	+8 to +420	-530 to +530	-125 to +125
WEIGHT	1400 lbs (635 kg)		
DIMENSIONS	45.5" W x 54.5" H x 41" D (115cm W x 138cm H x 104cm D)		

ALL SPECIFICATIONS ARE SUBJECT TO CHANGE.
TRADEMARK USAGE IN IMAGE SHOWN MAY VARY SLIGHTLY.