

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 prototype of the first modern electric car, the EV1. 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 accurate measurement of Ah and kWh during cycling.

APPLICATION GUIDE

Battery Testing and Cycling	Battery Module	•
	Battery Management System (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, End-of-line Testing	Powertrain	•
	Production Testing	•
	Medium & Heavy-duty (buses, trams, trolleys, trucks, trains)	•

SPECIFICATIONS

INPUT RATING	3 Phase, 240Vrms
CURRENT	335Arms
FREQUENCY	60Hz (50 Hz 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
WEIGHT	1400 lbs (635 kg)
DIMENSIONS	45.5" W x 54.5" H x 41" D (115cm W x 138cm H x 104cm D)

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

© 2017 AeroVironment, Inc. 052317

Some features are only available with appropriate software. For further info, please contact AV at p3sales@avinc.com. All specifications are subject to change. Trademark usage in image shown may vary slightly.