



ABC-600

High Voltage Dual Channel Cycling Station



Designed for Higher Voltage Testing

AeroVironment's ABC-600 was designed with increased voltage and current capability to meet the development demands of drivetrains, motors, energy storage devices and more. With a higher output rating, the ABC-600 is an ideal system for testing, emulating or simulating components of large electric vehicles (EV) and hybrid electric vehicles (HEV). The ABC-600 is used worldwide to support the development of next generation electric vehicles. 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, 480Vrms (380Vrms, 400Vrms, 440Vrms options)
CURRENT	200Arms at 480Vrms
FREQUENCY	60Hz (50 Hz optional)
ISOLATION TRANSFORMER	Internal 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	3500 lbs (1591 kg)
DIMENSIONS	73" W x 76.5" H x 37" D (185cm W x 194cm H x 94cm D)

OPERATING RANGE

CONFIGURATION	VOLTAGE (Vdc)	CURRENT (Adc)	POWER (kW)
INDEPENDENT	+8 to +600	-300 to +300	-150 to +150
PARALLEL	+8 to +600	-600 to +600	-150 to +150

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