AeroVironment™ Power Cycling and Test Systems

ABC-170

Dual Channel Cycling Station with Extended Sink Power

The Ideal Testing Solution for Fuel Cells

AeroVironment's ABC-170 is used to develop and test products that require additional sinking power. The ABC-170 was originally developed to test fuel cells in an energy efficient manner, by returning clean AC power back to the utility grid. AeroVironment's customers now use this versatile machine to test batteries, hybrids and other electric vehicle (EV) and hybrid electric vehicle (HEV) applications that require higher discharging capability. 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-170
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	370Arms
FREQUENCY	60Hz (50Hz optional)
ISOLATION TRANSFORMER	Requires external isolation transformer with 225KVA, 240Vrms secondary
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	-320 to +265	-170 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	-640 to +530	-170 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.

AV
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