

## AeroVironment™ Power Cycling and Test Systems

# ABC-170CE

Dual Channel Cycling Station with Extended Sink Power



### The Ideal CE Certified System for Fuel Cell Testing

AeroVironment's ABC-170CE is used internationally to develop and test products that require additional sinking power. The ABC-170CE 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 (CE)
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			
<b>INPUT RATING</b>	3 Phase, 415Vrms (380Vrms, 400Vrms, 440Vrms, 480Vrms options)		
<b>CURRENT</b>	213Arms at 415Vrms		
<b>FREQUENCY</b>	50Hz (60Hz optional)		
<b>ISOLATION TRANSFORMER</b>	Internal Transformer		
<b>POWER FACTOR</b>	> 99%		
<b>HARMONIC DISTORTION</b>	< 3% THD; IEEE 519 Compliant		
<b>MULTIPLE USER INTERFACES</b>	Manual; Remote Operation System (ROS); DCOM Driver for LabVIEW; C++ and Visual Basic; CAN		
OPERATING RANGE			
<b>Configuration</b>	<b>Voltage (Vdc)</b>	<b>Current (Adc)</b>	<b>Power (kW)</b>
<b>Independent</b>	+8 to +420	-320 to +265	-170 to +125
<b>Optional range</b>	+420 to +435	-160 to +160	-70 to +70
	+435 to +445	-90 to +90	-40 to +40
<b>Parallel</b>	+8 to +420	-640 to +530	-170 to +125
<b>WEIGHT</b>	3400 lbs (1542 kg)		
<b>DIMENSIONS</b>	73"W x 71"H x 30"D (183cm W x 180cm H x 76cm D)		

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