

# ABC-1000

*High Current Cycling Station*

- **Test High Current Drivetrains & Components**
- **Ideal for Evaluating Super Capacitors & Ultra Capacitors**
- **Powerful Computer Control**
- **Bi-Directional Load Capability**

## High Current Test Capability:

- Voltage Range 8 to 420VDC
- Current Source  $\pm 1000$ ADC
- Power up to  $\pm 125$ kW
- Run Two Tests Simultaneously
- Easy Front Panel Connections



## **Finally...A High Current Test System!**

The ABC-1000 is AeroVironment's high current cycling solution. This system is ideal for testing applications that require high current and low voltage capabilities. The ABC-1000 has been used to test super capacitors and ultra capacitors, as well as high current components.

***Call today for product pricing & delivery!***

# ABC-1000 Technical Specification

## Utility Requirement

<i>Voltage</i>	3 Phase, 480Vrms, +10%/-15%, ≤ 5% imbalance
<i>Current</i>	168Arms
<i>Frequency</i>	60 ±2 Hz (50 ±1 Hz optional)
<i>Isolation Transformer</i>	Transformer included in unit; no external transformer

## AC Power Quality at Rated Power

<i>Power Factor</i>	> 99%
<i>Harmonic Distortion</i>	< 3% THD

## DC Output

### Operating Range

<i>Configuration</i>	<i>Voltage (Vdc)</i>	<i>Current (A<sub>dc</sub>)</i>	<i>Power (kW)</i>
<i>Channel A</i>	+8 to +420	-500 to +500	-125 to +125
<i>Channel B</i>	+8 to +420	-500 to +500	-125 to +125
<i>Parallel</i>	+8 to +420	-1000 to +1000	-125 to +125

The above ranges are the maximum allowed by the system on a continuous basis. Voltage, current and power limits within the above ranges can be set by the user based on the load and the test requirements.

## Accuracy & Resolution

	<i>Accuracy (±)</i>	<i>Resolution</i>
<i>Voltage (Channels A, B, Parallel)</i>	250mV or 0.15% of the reading	0.2V
<i>Current Channel A</i>	250mA or 0.25% of the reading	0.2A
<i>Channel B</i>	250mA or 0.25% of the reading	0.2A
<i>Parallel</i>	300mA or 0.35% of the reading	0.4A

## Current Ripple on DC Output

<i>Independent &amp; Parallel</i>	< 0.5Arms
<i>Max Ripple from Load</i>	< 15Arms

## Operating Environment

<i>Temperature</i>	0-35°C
<i>Humidity</i>	5-90% non-condensing

## Additional Features

- *Remote Voltage Sense*
- *Analog Control Signal*
- *Independent Output Enabled*
- *Multiple User Interfaces: Manual; Remote Operation System (ROS); DCOM Driver for LabVIEW, C++ and Visual Basic; CAN*
- *Independent Mode Control for Each Output Channel*
- *Reverse Voltage Protection*

## Safety

- *Emergency Cutoff Switch*
- *Remote Emergency Switch Available*
- *Load Disconnect Protection*
- *Automatic Shutdown on Loss of Power*
- *Independent Channel Shutdown*

## Physical Specification

<i>Dimensions</i>	72"W x 76.5"H x 36"D (183 cm W x 194 cm H x 92 cm D)
<i>Weight</i>	3500 lbs (1591 kg)

*All specifications are subject to change without notice.*