

**AeroVironment™ Power Cycling and Test Systems**

# AV-800

## High Power Dual Channel Cycling Station



### Near-Megawatt Power for the Heaviest of Applications

The AV-800 is capable of supporting very high power applications by delivering 800kW of power. This heavy duty system is ideal for power generation, energy storage, and large electric vehicle and hybrid electric vehicle simulation and testing. 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                          | AV-800     |
|--|--------------------------------------|------------|
| 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, 480Vrms (380Vrms, 400Vrms, 440Vrms, 480Vrms options)                             |
| <b>CURRENT</b>                  | 1000Arms at 480Vrms   |
| <b>FREQUENCY</b>                | 60Hz (50Hz optional)  |
| <b>ISOLATION TRANSFORMER</b>    | Requires external isolation transformer with 480Vrms, delta secondary                     |
| <b>POWER FACTOR</b>             | > 99%   |
| <b>HARMONIC DISTORTION</b>      | < 5% THD  |
| <b>MULTIPLE USER INTERFACES</b> | Manual; Remote Operation System (ROS); DCOM Driver for LabVIEW; C++ and Visual Basic; CAN |
| OPERATING RANGE                 |   |
| Configuration                   | Voltage (Vdc)    Current (A dc)    Power (kW)   |
| <b>Independent</b>              | +8 to +800    -500 to +500    -400 to +400  |
| <b>Parallel</b>                 | +8 to +800    -1000 to +1000    -800 to +800  |
| <b>WEIGHT</b>                   | 5500 lbs (2495 kg)  |
| <b>DIMENSIONS</b>               | 84"W x 78"H x 80"D<br>(213cm W x 198cm H x 203cm D)                                       |

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

