

AeroVironment™ Power Cycling and Test Systems

AV-900

Heavy Duty Dual Channel Cycling Station



Cycling and Testing for Large Hybrids

The AV-900 is AeroVironment’s heavy duty test solution. With greater voltage, current and power capability, this system is ideal for testing and emulating energy storage and drivetrain components of large electric and hybrid electric vehicles (HEV), such as buses, trucks and military vehicles. The AV-900 is deployed worldwide to support the development of fuel cell buses, hybrid locomotives and other HEVs. 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-900
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, 480Vrms (380Vrms, 400Vrms, 440Vrms options)		
CURRENT	335Arms at 480Vrms		
FREQUENCY	60Hz (50Hz 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		
OPERATING RANGE			
Configuration	Voltage (Vdc)	Current (A dc)	Power (kW)
Independent	+8 to +750	-500 to +500	-250 to +250
	+751 to +825	-400 to +400	-225 to +225
	+826 to +900	-300 to +300	-200 to +200
Parallel	+8 to +750	-1000 to +1000	-250 to +250
	+751 to +825	-800 to +800	-225 to +225
	+826 to +900	-600 to +600	-200 to +200
WEIGHT	4500 lbs (2041 kg)		
DIMENSIONS	73"W x 76.5"H x 37"D (185cm W x 194cm H x 94cm D)		

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

