

## AeroVironment™ Power Cycling and Test Systems

## AV-900 EX

Intelligent. Accurate. Scalable



## Powering Up To 1 MW

The AV-900 EX is ideal for testing and emulating energy storage and drive train components of large electric and hybrid electric vehicles. The increased performance (rise time/slew rate) and increased accuracy make the AV-900 EX ideal for applications like Heavy Industrial (ships, trains, trucks, and planes), Military (hybrid drives and aircraft launch systems), Power Electronics (Solar Panels, Inverters), and Hardware in the loop testing. Digital controls protect critical systems and components, and the system can self-adjust to external environmental events like unstable power sources. The bi-directional system can operate at  $\pm 250\text{kW}$ , or combined, it can scale to  $\pm 1\text{MW}$ . The AV-900 EX, with new LCD touchscreen display, is an intelligent system that will give you the accuracy, speed, and control to add value to your tests.

Power Rating	1 MW paralleling units
Measurement Error: Remote Voltage	$\pm 0.05\text{V}$ or $\pm 0.05\%$ of reading
Measurement Error: Current	$\pm 160\text{mA}$ or $\pm 0.05\%$ of reading
Communication (Control) with Command Latency	Ethernet 275 $\mu\text{s}$ CAN 35ms RS-232 35ms
Control Modes	Voltage Current Power Resistance Voltage with Internal Resistance
Camlocks	Available with or without
Weight	4500 lb (2041 kg)
Dimensions	73" W x 76.5" H x 37" D (185cm W x 194cm H x 94cm D)

STEP RESPONSE (SLEW RATE)	INDEPENDENT	PARALLEL	MULTI-UNIT
VOLTAGE	171V/ ms	89V/ ms	76V/ ms
CURRENT	769A/ ms	1282A/ ms	1935A/ ms
POWER	274kW/ ms	500kW/ ms	833kW/ ms
TRACKING BANDWIDTH (COMMANDS/SECOND SQUARE WAVE)			
VOLTAGE	50 (500V) 75 (250V)	50 (250V and 500V)	50 (250V and 500V)
CURRENT	175 (500A)	150 (700A)	50 (700A)
POWER	100(150kW)	150 (250kW)	50 (250kW)

(Maximum Values)

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

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