



Ultracapacitors have emerged as a critical technology with the advent of high-power renewable energy storage systems and infrastructure. However, modern ultracapacitor cycle life and stability are limited by unwanted chemical reactions driven by impurities in the system. The impact of impurities is magnified at higher operating voltages, preventing advancement of ultracapacitor devices into future markets.

AEROVOLT is a patented ultra-pure carbon aerogel which enables the next generation of ultracapacitors. The engineered structure and purity eliminates parasitic side reactions in the electrolyte at high operating voltages and extends cycle life far beyond traditional carbon.

Carbon Aerogel Difference

	High Energy	High Power
Description	Microporous Carbon Aerogel	Mesoporous Carbon Aerogel
BET Surface Area (m²/g)	1,725	1,725
Total Pore Volume (cc/g)	0.70	1.30
Tap Density (g/cc)	0.48	0.32
Particle Size, D50 (µm)	7	7
Total Metallic Impurities (ppm)	<50	<50
Ash Content (%)	<0.02	<0.02

Industry Leading Purity

Patented ultra-pure precursor maintained in a highly controlled manufacturing process.

Extended Cycle Life

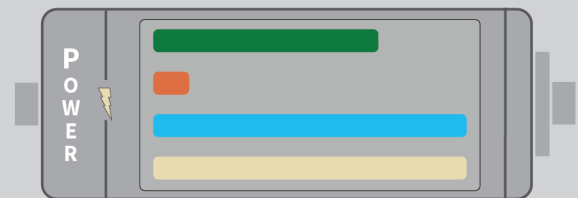
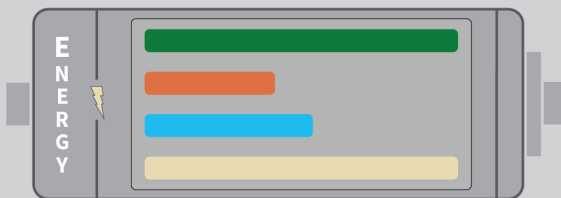
Unmatched device stability across a multitude of applications.

High Voltage Stability

Enables high voltage operation for the next generation of 3V+ ultracapacitors.

Superior Power Performance

Industry-leading power performance in all standard electrolyte systems.



█ Capacitance
█ Resistance
█ Power
█ Cycle Life

AeroVolt has been utilized in high energy and high power applications including: Automotive, energy storage, emergency and energy balancing systems.

Request a sample at
www.enerG2.com/AeroVolt

