



The 1 MW_{AC}/4MWh_{AC} Uni.System installed at Schweitzer Engineering Laboratories in Pullman, Washington

UNI.SYSTEM™ **GRID-SCALE ENERGY STORAGE SOLUTION**

*A proven, reliable,
and long-life solution
for utility, microgrid,
and commercial and
industrial uses.*

**ADVANCED VANADIUM FLOW BATTERY PROVIDES
THE ONLY MULTI-MEGAWATT “ALL IN ONE”
CONTAINERIZED SOLUTION.**

The Uni.System is modular, factory-integrated (including AC power conversion), and “plug & play.” Comprised of five 20’ standard containers requiring only a concrete pad, the system provides 500kW_{AC} of power for 4 hours, with peak power of 600kW_{AC} and maximum energy of 2.2MWh_{AC}.

Safe and reliable, the Uni.System’s performance is third-party validated. Its upfront cost is economic, its levelized cost of energy over the 20-year system life is compelling, and its value is unmatched.

www.uettechnologies.com



UET UniEnergy
Technologies

The Uni.System, with its operational flexibility, provides the full range of power and energy applications required to integrate renewables, support the grid and microgrids, and meet customer needs. That same "all-in-one" capability of the UET system, combined with its compact footprint and broad ambient temperature tolerance (-40°F to 120°F/-40°C to 50°C), suits it to reliably support multiple applications in diverse locations and settings.



UNLIMITED CYCLES

NO CAPACITY FADE

NO THERMAL RUNAWAY

100% USE OF CHARGE

FACTORY INTEGRATION

MODULAR ASSEMBLY

**BUILT-IN SECONDARY
CONTAINMENT**

FACTORY TESTING

RAPID PERMITTING

PLUG & PLAY

**RATED TO TRANSPORT
AND SEISMIC CODES**

ZERO-COST DISPOSAL

100% RECYCLABLE

UNI.SYSTEM™ (AC) PERFORMANCE DATA

Peak Power	600 kW _{AC}		
Maximum Energy	2.2 MWh _{AC}		
Discharge time	2h	4h	8h
Power	600 kW _{AC}	500 kW _{AC}	275 kW _{AC}
AC (Roundtrip) Efficiency	≈70%		
Voltage	12.47kV +/- 10%		
Current THD (IEEE 519)	<5%THD		
Response Time	<100ms		
Reactive Power	+/- 450kVAR		
Humidity	95%RH noncondensing		
Footprint	820 ft ² (76m ²)		
Envelope	41'[W] x 20'[D] x 9.5'[H] (12.5m[W]x6.1m[D]x2.9m[H])		
Total Weight	375,000 lbs (170,000 kg)		
Cycle and Design Life	Unlimited cycles over the 20 year life		
Ambient Temp.	-40°F to 122°F (-40°C to 50°C)		
Self Discharge	Max 2% of stored energy		

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