



The 1 MW<sub>AC</sub>/4MWh<sub>AC</sub> 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<sub>AC</sub> of power for 4 hours, with peak power of 600kW<sub>AC</sub> and maximum energy of 2.2MWh<sub>AC</sub>.

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

[www.uettechnologies.com](http://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 <sub>AC</sub>                                    |                      |                      |
| Maximum Energy            | 2.2 MWh <sub>AC</sub>                                   |                      |                      |
| Discharge time            | 2h                                                      | 4h                   | 8h                   |
| Power                     | 600 kW <sub>AC</sub>                                    | 500 kW <sub>AC</sub> | 275 kW <sub>AC</sub> |
| 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 <sup>2</sup><br>(76m <sup>2</sup> )              |                      |                      |
| Envelope                  | 41'[W] x 20'[D] x 9.5'[H]<br>(12.5m[W]x6.1m[D]x2.9m[H]) |                      |                      |
| Total Weight              | 375,000 lbs<br>(170,000 kg)                             |                      |                      |
| Cycle and Design Life     | Unlimited cycles over the<br>20 year life               |                      |                      |
| Ambient Temp.             | -40°F to 122°F<br>(-40°C to 50°C)                       |                      |                      |
| Self Discharge            | Max 2% of stored energy                                 |                      |                      |

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**w:** [www.uettechnologies.com](http://www.uettechnologies.com)  
**p:** 425.290.8898  
**e:** [info@uettechnologies.com](mailto:info@uettechnologies.com)  
**a:** 4333 Harbour Pointe Blvd SW, Ste. A  
 Mukilteo, WA 98275

