



The 125 kW_{AC}/500 kWh_{AC} ReFlex is a rugged product for commercial and industrial applications.

ReFlex™ PLUG & PLAY ENERGY STORAGE SOLUTIONS

Ideal for long-duration energy applications and short-duration applications including demand reduction, renewables integration, backup power, and microgrid support.

ADVANCED VANADIUM FLOW BATTERY PROVIDES A FULLY INTEGRATED, CONTAINERIZED ENERGY STORAGE SYSTEM

The ReFlex is a single module, rapidly deployable energy storage solution designed with commercial and industrial users in mind. The battery is factory-integrated (including AC power conversion), and "plug & play." Comprised of a single 20' standard shipping container, the system provides 100kW_{AC} of power for 4.5 hours, with peak power of 125kW_{AC} and maximum energy of 500 kWh_{AC}.

Safe and reliable, the ReFlex'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.

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 **UET** UniEnergy
Technologies



The ReFlex offers operational flexibility, providing the full range of power and energy applications required to reduce demand charges, integrate renewables, provide back-up power, and support microgrids to meet a variety of customer needs. The “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), reliably supports multiple applications in diverse locations and weather conditions.

- 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**

ReFlex™ (AC) PERFORMANCE DATA

Peak Power	125 kW _{AC}		
Maximum Energy	500 kWh _{AC}		
Discharge time	3h	4.5h	8h
Power	125 kW _{AC}	100 kW _{AC}	65 kW _{AC}
AC (Roundtrip) Efficiency	≈70%		
Voltage	400 VAC -15% to 480 VAC +10%		
Current THD (IEEE 519)	<5%THD		
Response Time	<100ms		
Reactive Power	+/- 450kVAR		
Humidity	95%RH noncondensing		
Footprint	160 ft ² (14.9m ²)		
Envelope	20'[L] x 8'[W] x 9.5'[H] (6.1m[L]x2.4m[W]x2.9m[H])		
Total Weight	80,000 lbs (36,300 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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