

# REFLEX™ FLOW BATTERY

## PRELIMINARY DATA SHEET

ADVANCED VANADIUM FLOW BATTERY  
PROVIDING RESILIENT "ALL IN ONE"  
SOLUTIONS FROM KW TO MW

*High Power & Long Duration*

*Zero Degradation*

*Unlimited Cycles*

*No Thermal Runaway*

*Non-Flammable*

*Use Case Flexibility*

*Shipped Ready to Run*

*20+ Year Lifetime*

*Highly Recyclable*



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 **UET** UniEnergy  
Technologies

ReFlex™ modular architecture delivers the full range of power and energy required to serve commercial and industrial customers, support smart grids and microgrids, integrate renewables, and meet utility needs. Its compact footprint, broad operating temperature, and conformity to existing and emerging standards enable safe and reliable deployment for diverse applications and facilities.



**UL 1973 (IN PROCESS)**

**UL 9540 COMPLIANT**

**UN/DOT CERTIFIED**

**1500VDC COMPATIBLE**

**MESA/SUNSPEC INTERFACE**

**SELF-POWERED BACKUP**

**FAST 1MS RESPONSE**

**SECONDARY CONTAINMENT**

**AIR COOLED**

**REFLEX™ MODULE DISCHARGE PERFORMANCE**

Duration	Power	Energy
2 Hour	10 kW	20 kWh
4 Hour (Nominal)	7.5 kW	30 kWh
6 Hour	5.3 kW	32 kWh
8 Hour	4.3 kW	34 kWh
10 Hour	3.6 kW	36 kWh

**REFLEX™ MODULE SPECIFICATIONS**

Voltage	48V nominal (40-64V)
Current	250A Maximum
Dimensions	0.76m W x 1.45m D x 1.98m H (30" W x 57" D x 78" H)
Weight	2,500 kg (5,500 lbs)
Ambient Temp	0°C to 35°C
Enclosure	NEMA 1 (IP 20)
Peak Efficiency	80% Round trip
Self Discharge	2% Maximum total energy loss (except when self-powered)
Aux Supply Input	85-264VAC 1Φ, 50/60Hz, 20-500W (and self-powered for backup)

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Preliminary specifications subject to change

**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  
 Mukilteo, WA 98275

