

REFLEX™ FLOW BATTERY DATA SHEET

**ADVANCED VANADIUM FLOW BATTERY
PROVIDING RESILIENT MODULAR
SOLUTIONS FROM KW TO MW**

Zero Degradation

Unlimited Cycles

No Thermal Runaway

Non-Flammable Electrolyte

Shipped Charged

Flexible Dispatch

Full Depth of Discharge

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 conformance to existing and emerging standards enable safe and reliable deployment for diverse applications and facilities.

UL 1973 IN PROCESS

1500V COMPATIBLE

MESA/SUNSPEC INTERFACE

SELF-POWERED BACKUP

FAST 1MS RESPONSE

SECONDARY CONTAINMENT

SEAMLESS BYPASS

AIR COOLED

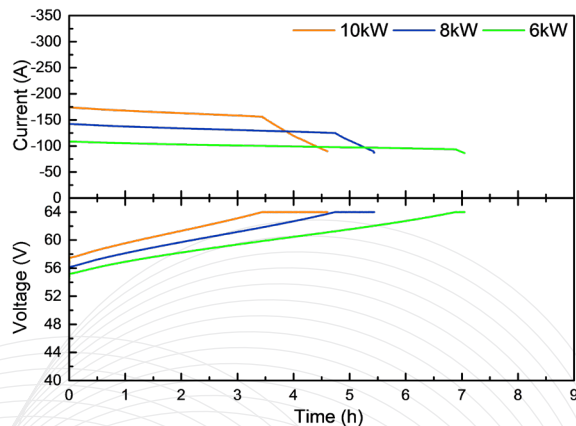
DISCHARGE PERFORMANCE

Duration	Power	Energy	Efficiency ⁽¹⁾
2 Hour	11 kW	22 kWh	76%
4 Hour	7.5 kW	30 kWh	80%
6 Hour	5.5 kW	33 kWh	83%
8 Hour	4.4 kW	35 kWh	86%

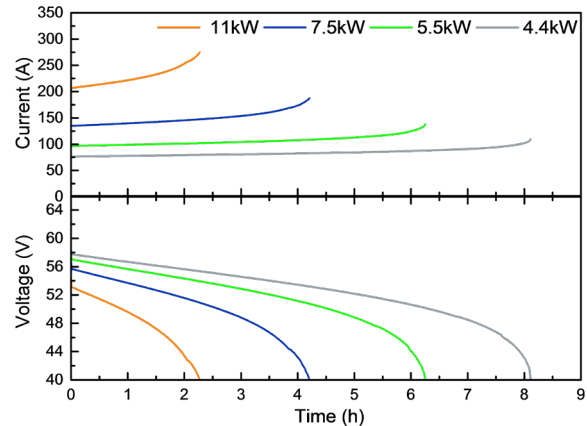
SPECIFICATIONS

Voltage	40-64 V (48 V nominal)
Current	350 A Maximum
Discharge Overload Power	14 kW (<5 minutes, >50% SOC)
Charge Power	10 kW Maximum
Dimensions	0.75m W x 1.5m D x 2.0m H (30" W x 60" D x 80" H)
Weight	2,200 kg (4,850 lbs)
Ambient Operating Temp ⁽²⁾	0°C to 45°C (32°F to 113°F)
Storage Temp	-15°C to 55°C (SOC = 50%)
Enclosure	IP 20 (NEMA 1)
Self Discharge Rate	Off = 0%, On = 0.1%/hour
Short Circuit Current	3 kA Maximum
Communications	Modbus TCP
Auxiliary Supply Input	100-240 VAC 1Φ, 50/60 Hz Off = 20 W, Typical = 300 W, Max = 500 W

CHARGE FROM 0-100% SOC



DISCHARGE FROM 100% SOC



(1) DC round trip efficiency, charged with 8kW power, excludes auxiliary load
 (2) Current may derate depending on duty cycle and ambient temperature profile

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