

eNow Li-ion Battery: 60 kWh 48V

1. Scope

- 1.1. This document describes the product specifications, performance, electrical and safety characteristics as well as testing methods performed.

2. Product Type and Model Number

- 2.1. Product Type
 2.1.1. Lithium-ion Battery
- 2.2. Model Number
 2.2.1. EE-60K48V500A



3. Product Specifications

Item	Parameter	Value
1	Nominal Voltage	44.4 VDC
2	Maximum Charge Voltage	50.4 VDC
3	Cutoff Voltage	36.0 VDC
4	Nominal Capacity	1332 Ah
5	Impedance (Measured at 1 kHz after Standard Charge)	TBD
6	Battery Weight (Approx. value for reference)	800 lbs (364kg)
7	Maximum Discharge Rate	1C
8	Standard Charge, 1.5h	1C
9	Maximum Charge Rate	2C
10	Operating Temperatures Charge Discharge Storage	0°C to 45 C 0°C to 60°C -20°C to 60°C
11	Humidity Range	≤ 90% RH
12	Cycle Life (Charge/Discharge: 0.5C/1.0C) See Appendix B @20°C – Capacity at 80% @40°C – Capacity at 80% @60°C – Capacity at 80%	Cycles ≥ TBD ≥ TBD ≥TBD
13	Self Discharge Remaining Capacity (Storage for 30 Days) @20°C @40°C @60°C	Capacity ≥ 95% ≥ 90% ≥ 85%



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4. Battery Dimensions

4.1. Please refer the drawing in Appendix A

5. Battery Appearance

5.1. No scratches, dirt, defect, leakage of electrolyte or gassing should be observed on a new product.

5.2. Characteristics

5.2.1. Electrical Characteristics

Item	Parameter	Value	Test Conditions
1	Open Circuit Voltage	44.4 to 45.6 VDC	The batteries are measured at $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$ and at 50% state-of-charge(SOC)
2	Standard Rate Capacity	$\geq 1332 \text{ Ah}$	Standard Charge (0.5C), then rest batteries for 10 min. Standard rate discharge (0.2C) at $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$.
3	High Rate Capacity	$\geq 1120 \text{ Ah}$	Standard Charge (0.5C), then rest batteries for 10 min. High rate discharge (1C) at $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$.
4	Storage Temperature	1 Month: $-30^{\circ}\text{C} - 60^{\circ}\text{C}$ 3 Months: $-30^{\circ}\text{C} - 60^{\circ}\text{C}$ 1 Year: $-30^{\circ}\text{C} - 25^{\circ}\text{C}$	Batteries should be cycled every 3 months; Store at 40 – 60% state-of-charge (SOC) Humidity Range: $< 75\% \text{ RH}$

5.1. Safety Characteristics

5.1.1. The individual modules contained within the battery have been subjected to and passed UN DOT 38.3, IEC62133-2 and IEC62619 testing.

5.2. Reliability

5.2.1. Standard Testing Environment

5.2.2. Temperature: $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$

5.2.3. Relative Humidity: $45 \pm 20\%$ (unless specially requested)

6. Warranty

6.1.1. Warranty period for this product is 24 months starting from the date when the products leave the shipping dock of the manufacturer.

6.1.2. Liability: The user must operate the products according to the instructions printed on the battery label or follow the advice provided by eNow. In the event the battery is overheated, catches fire or explodes due to mishandling by the end-user, eNow will not be liable for the loss caused by any of such mishandling. eNow will notify the users in written form if there are any modifications to this specification.