OutBack POWER™

an EnerSys® company

EnergyCell™ XLC Battery

EXCEEDING THE INDUSTRY STANDARD

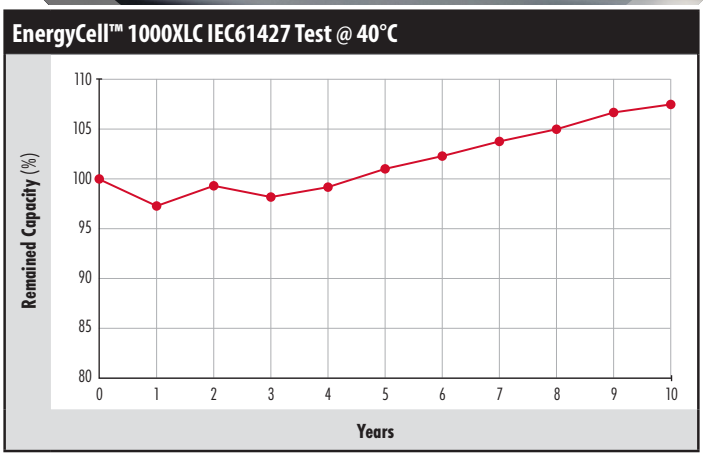
The OutBack Power™ EnergyCell™ XLC battery cycle life is test proven, not estimated.

Ideal for high-capacity energy demands in off-grid, self-consumption, and time-of-use (ToU) applications, the EnergyCell™ XLC battery stands out from other lead-acid offerings due to its advanced technology, making it versatile, robust, and adaptable for any cyclic or smart energy management applications and backed up with real test data.

Due to the nature of renewable energy systems combined with unpredictable weather, batteries are typically kept at a partial state of charge and heavily deep cycled. As a result, the life expectancy of a lead-acid battery is difficult to predict. So how do manufacturers reliably determine the life of a battery?

The International Electrotechnical Commission's (IEC) standard 61427 has been internationally accepted in the renewable energy industry as a benchmark to measure the expected battery life resembling real-life applications. The test subjects the battery to a series of shallow cycles (high, low, and partial state of charge) at an elevated temperature of 40°C (104°F). Once the battery reaches less than 80% of its rated capacity, it is considered end of life.

Batteries are the heart of any off-grid system so reliability is crucial for a successful long-life system. The EnergyCell™ XLC battery outperforms traditional lead-acid batteries with up to 3,800 cycles (@ 50% DoD), equating well over a 10-year service life due to its advanced technology, resulting in a purpose-built energy storage system for today's demanding renewable energy applications.



The table above shows actual EnergyCell™ XLC test results throughout a 10-year IEC period.

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