Encell battery Lesotho

What is Encell fused iron battery?

By applying 21st century technology to Thomas Edison's original,long lived and high cycling nickel iron battery,Encell has created to world's most durable and longest cycling battery. The Encell Fused Iron Battery has the capability of doing over 15,000 full 100% DoD cycles enabling the lowest levelized cost of storage (LCOS) in the market.

What is Encell technology?

Encell is committed to solving the challenges of managing, storing and delivering energy in a clean, reliable, and cost-effective way. At Encell Technology, we have a vision. We see an energy future that is far less reliant on the old ways of generating energy and increasingly committed to using alternative sources such as wind, solar, and wave.

How long does an Encell fused iron battery last?

With a float charge battery life of over 20 yearsand no capacity fade for the first 75% of total cycle life,the Encell Fused Iron Battery is estimated to cost up to one-tenth the price per kilowatt hour on a LCOS basis in comparison to a lead acid battery with similar name plate capacity.

What is the difference between LCOE and Li ion batteries?

The LCOE advantage is even more pronounced versus Li Ion batteries. Currently, the Encell Fused Iron Technology TM Battery is available in several configurations for various applications - 100Ah, 120Ah, 140Ah, 175Ah and 300Ah. Temperature ranges for both operation and storage is (-30 0 C to 60 0 C).

The Encell Fused Iron Battery has the capability of doing over 15,000 full 100% DoD cycles enabling the lowest levelized cost of storage (LCOS) in the market. The extended deep-discharge performance results in a dramatic reduction in the number of batteries needed without compromising battery life.

Encell says its product is notably cheaper in levelized cost of storage (LCOS) than lithium ion and lead acid batteries. Plans to take the nickel iron chemistry -- which Thomas Edison famously called "far superior to lead" -- to greater production levels has taken a while.

All testing was performed on a 12 volt (V), 140 amp-hour (Ah) battery pack system. Testing was completed in two phases and were funded in the first round by DOE and in the second by ...

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Encell"s battery technology uses totally green materials, produces the required power through its unique battery chemistry, and provides a life span that far exceeds that of competing solutions. The result is an environmentally responsible, safe and scalable solution affording users with the lowest total cost of ownership for long term energy ...

Encell Technology, Inc. has introduced the Atlas 160 Nickel-Iron (NiFe) battery. The first production of these 160Ahr, front-terminal, 12-volt rechargeable batteries shipped this week.

Test results have indicated that the Encell NiFe battery technology can provide power levels up to the 6C discharge rate, ampere-hour efficiency above 70%. In summary, the Encell batteries have met performance metrics established by the manufacturer.

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