

Cost of sonnen battery systems

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Sonnen Batteries, widely known by the brand SonnenBatterie, are quickly establishing themselves as a leading player in the Australian solar storage market. They've also started manufacturing locally at their Adelaide plant.

Sizes available: 5 kWh to 15 kWh. (expandable in steps of 2.5 kWh) One-way efficiency: 98% Batterie type: Lithium Ferro phosphate The output: 90% of its storage capacity. (5kWh outputs 4.5kWh) sign lifespan: 20 years Warranty: 10 years or 10,000 charge cycles Indoor/ Outdoor: Can be mounted outdoors System intelligence: Predictive charging for optimal efficiency

Sonnen claims that their battery efficiency is close to 98% from all installations. So you can get the following outputs even if you derive an average of 90% output-

The maximum inverter efficiency for the 8th generation sonnenBatterie eco built-in inverter is 96%. The maximum battery efficiency given by the company is 98%. Sonnen doesn't confirm whether the values are round-trip efficiencies, so we will assume they are one-way.

That means the maximum round trip efficiency you can derive with respect to power into power out is around 87%. So in order to get an output of 1 kWh of energy, you will need approximately 1.15 kWh of solar energy.

Sonnen says that their batteries are designed to last for 20 years. They even provide a warranty for ten years or 10,000 charging cycles which are the highest in the industry. You will probably reach close to 20 years before you even complete the 10,000 cycles.

Even if you have 2 charging cycles each day, it will take 13.7 years to reach 10,000 cycles. That means sonnenBatterie eco can have a total life of close to 20 years as claimed by the company.

However, like all rechargeable batteries, you need to maintain a controlled environment to derive a longer lifespan. Sonnen Eco models have an ambient temperature range of 5 degrees to 40-degree Celsius and even offer a cooling system in case you exceed the limits.

Note: Sonnen is a smart battery and there's no damage even if it's fully charged and your PV is still generating. The battery will cut off the power and export the energy back to the grid.

Tesla is a reputed name in the world of renewable energy. Along with electric cars, Tesla's home energy storage systems have also gained popularity among homeowners.

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Based on the above specs, I'm a little torn. The price of each system is pretty similar and so are the rest of the specs. I would go with a Sonnen as they can withstand more extreme temperature fluctuations when mounted outdoors. They also have superior round-trip efficiency.

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