



Alpha ess 5 04kwh main battery

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If you were starting from scratch and installing a new system, a DC coupled AlphaESS battery would make the most sense. This is because there would be no need to purchase an additional grid-connected inverter as the AlphaESS unit can do it all for you. It also only converts DC energy to AC energy once when the house is drawing down power from battery - meaning its a more efficient solution.

One of AlphaESS's most popular residential battery systems is the SMILE5 series. See the below table which provide an indicative guide based on data from Solar Choice's Battery Price Index on the cost of installing a AlphaESS SMILE5 with different battery capacity:

To give this cost context it is important to balance the cost of a battery against the return of a cheaper power bill. Solar Choice's solar and battery calculator is a comprehensive tool to understand the financial viability - although be warned, the financial return for batteries is still not as attractive as solar panels.

ITP Renewables, an independent organization funded by the Australian Renewable Energy Agency (ARENA), independently tested AlphaESS. They publish live performance data and biannual reports on the batteries they test. Their accelerated testing method cycles batteries three times daily, simulating nine years of use in just three years.

In 2017, ITP Renewables began testing the AlphaESS M48100 (9.6kWh) battery. After two years, equivalent to six traditional years of use, they noticed abnormal behavior: the battery's charge/discharge rate was restricted. AlphaESS examined the battery and found over-temperature alarms, leading to the discontinuation of the test.

AlphaESS informed Solar Choice that the tested battery was their first model, manufactured over seven years ago, and they have made significant improvements since.

AlphaESS offers a 5-year warranty for the inverter and all non-battery components. For the batteries, they provide a more extensive warranty, guaranteeing at least 80% of original capacity after 10 years, under specific conditions:

Without an internet connection, the battery warranty reduces to 3 years. In case of a warranty claim, either you or the installer must arrange and pay for the system's inspection. However, under Australian Consumer Guarantees, you may claim for reasonably foreseeable damages and losses, including inspection costs for a malfunctioning system.

Battery is working well. always leaves 10% charge when discharging so a 10kw battery is really only 9kw of usable storage. which i wasnt aware of. modular means i might add anouther 5kw battery at some point. its



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usually fully charged up by 10am the next day.

The battery has performed well and configuring the system is easy. Moreover, in the event of a blackout it is easy to disconnect from the grid to run the essentials.

In January 2023 I had Solar Professionals Wagga Wagga install an Alpha Smile 5, 13.3 kW battery which includes a 5kW inverter. With the NSW Government Low Income Household Rebate and the Australian Government Energy Price Relief Plan Rebate I don't have anymore electricity bills to pay. Overall I am very pleased with the performance of the complete system. My home is now all electric with reverse cycle air conditioning and a heat bank hot water system running off the battery.

The battery is AC coupled, meaning that it does not charge the battery when the State Power networks disable your inverter due to reduce excess grid requirements.

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Web: <https://hollanddutchtours.nl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

