



Akaroa 2 Bedroom Off-Grid Solar System

With average power usage
of 6-8kWh/day[^]

\$22,285*



AA SOLAR
& SUN POWER PLUS

Tried, Tested and Loved for over 30 years

4/70 Forge Road, Silverdale, Auckland 0932, New Zealand

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* We will provide a detailed estimate tailored for your specific needs; prices are an indication. They are subject to change due to customisation, shipping, or supplier price changes. All PV generation figures are Auckland based, with PV modules facing True-North pitch without shading. No system installation, inspection, commissioning, and maintenance allowance in this kit price. Installations shall be in accordance with NZ law, regulations and associated standards. Systems are wired to the main distribution board. It is highly recommended that any system with less than four days of autonomy have an auto-start generator installed.

[^] For Off-Grid PV Systems, the way you use power throughout the year and over a 24hr period will alter the system performance. Normalised profiles have been used to provide kitset examples.

Overview:

- ✓ Off-Grid System
- ✓ 3.64kWp Solar Panel Array (8 x 455W)
- ✓ 12kWh (11.4kWh usable) Battery Bank
- ✓ Inverter/Charger with built-in 5kW max Solar Controller

The AA Solar Akaroa 2 Bedroom Off-Grid Solar System suits a family home or Bach with average power and energy needs. Who uses gas for cooking, gas hot-water and ideally wood or gas fire to warm their home in the winter. This System enables you to run the usual household appliances. It even offers the capacity to run several kitchen appliances simultaneously whilst also doing the vacuuming and a load of washing.

This System is designed for situations where daily power usage does not exceed 6-8kWh.

Tell Me More:

Akaroa 2 Bedroom Off-Grid Solar PV System is the ideal System for people expecting to use an average of 6-8kWh/day and where the amount of load required is 4kVA continuous (30min) and up to 10.5kVA 5sec peak (values at 25°C).

It comes with a 3.64kW solar array and a 12kWh (11.4 kWh usable) battery bank.

At the heart of this Off-Grid System is an inverter/charger that provides a central unit to monitor and control all aspects of the System.

How Much Power Will I have?

Your System has 8 panels; the 3.64kW solar arrays' average days' power production will be between 7-8kWh in winter and up to 14-18kWh in summer.

System Inclusions:

- Fully Integrated Off-Grid Power System
- 8 x Solar Panel 455W PERC Half Cell
- Inverter/Charger with Inbuilt Temperature Sensor and Solar Controller
- 5 x US2000 Lithium Batteries
- Indoor Battery Cabinet
- AC/DC Protection Switch Gear
- Flush Tin Mounting Kit



What Can Be Powered:

All the power requirements of a typical tiny home with gas cooking and hot water. Provided the total power drawn at any one time does not exceed 3.5kVA continuous and 4KVA for 30 minutes.

- ✓ Lighting°
- ✓ Medium fridge/freezer°
- ✓ TV°
- ✓ Rangehood°
- ✓ Water pump
- ✓ Macerator°
- ✓ Internet, laptops, phone chargers
- ✓ Suitable washing machine°
- ✓ All small appliances such as jug, toaster, microwave create variable loads; please discuss planned usage with your trusted AA Solar Engineer. The key is to ensure they are not all used at once. Keep in mind that you have a total of 3.5kVA continuous, 4kVA for 30mins, and 10.5kVA for 5sec (values at 25°C) available.

Note: AC loads must stay within the Inverter's limitations.

° = Energy efficient



Pro Tip:

For year-round living, we highly recommend adding an auto-start generator. Provide backup power during periods when the weather is bad and your total solar generation is not enough to cover your energy needs and keep your battery bank full.

Warranties:

PV modules – Twenty Five-year linear power and Ten-year material & workmanship

Inverter/charger – Ten-years

Charger Controller – Ten-years

Battery – Ten-years

Mounting System – Ten-years

Why AA Solar:

At AA Solar, we are passionate about helping our customers harness the sun's power to give greater energy freedom, lower costs and a clean, safe energy solution. We tackle all solar & battery projects from RVs, Boats, Industrial Equipment to Off-Grid Residential homes. No job is too big or too small for this talented, dedicated crew of Solar Engineers.

- ✓ Bespoke Solutions
- ✓ Friendly experienced professionals
- ✓ Can-do attitude
- ✓ Great pricing and service
- ✓ Best in class, for warranties

Being a custom business, we: design, specify, source, install and guarantee the right Solar System for you. With a track record of over 30 years, you can be assured; we are here to support you now and for many years to come.

Our expert team will explain our products and processes and help demystify solar PV and batteries; we are the ideal partner for anyone seeking to install an off-grid System themselves or equally would like us to install it for them.

Our process starts and finishes with you. Our job is to understand your power needs and then provide the advice, product and service you need to get the right solar solution, first time, every time.





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