



Kaikoura One Bedroom Off-Grid Solar System

With average power usage
of 4.5-6.5kWh/day[^]

\$15,999*



AA SOLAR
& SUN POWER PLUS

Tried, Tested and Loved for over 30 years

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

Email: sales@aasolar.co.nz Phone: 0800 119 581

www.aasolar.co.nz

* 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)
- ✓ 19.2kWh (9.6kWh usable) Battery Bank
- ✓ An Inverter/Charger with a built-in 5kW max Solar Controller.

The AA Solar Kaikoura One Bedroom Off-Grid Solar System is perfect for small lodgings such as tiny homes, sleepouts, and granny flats (used either part-time or full-time). It is the ideal System for people where the power requirement is for LED lights, a small efficient fridge-freezer, and charging for phones, laptops. You can also use small appliances such as a jug, toaster, and microwave, provided the maximum draw does not exceed 4000W. And you will have enough power to run a vacuum cleaner during the day, and a washing machine on sunny days.

Tell Me More:

The Kaikoura is ideal for situations requiring an average 4.5-6.5kWh of power a day, and the load needed is 4kVA continuous and up to 8kVA 5sec peak (values at 25°C). It comes with a 3.64kW solar array and a 19.2kWh (9.6kWh usable) battery bank.

At the heart of this Off-Grid System is the 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 eight panels; the 3.64kW solar arrays' average daily power production will be between 5-8kWh in winter and up to 12-16kWh in summer.

System Inclusions:

- Fully Integrated Off-Grid Power System
- 8 x Solar Panels 455W PERC Half Cell
- Inverter/Charger with Inbuilt Temperature Sensor and Solar Controller*
- 19.2kWh (9.6kWh Usable) Battery Bank*
- Smart Battery Monitor
- Flush Tin Mounting Kit
- AC/DC Protection Switch Gear

* Inverter and Batteries need to be housed in a watertight shed or similar.



What Can Be Powered:

This System can meet all the power requirements of a typical small home with gas cooking and hot water up to 4kW continuous demand.

- ✓ Lighting°
- ✓ Water pump°
- ✓ Small Dometic fridge/freezer°
- ✓ TV°
- ✓ Rangehood°
- ✓ Macerator°
- ✓ Internet, laptops, phone chargers
- ✓ Suitable washing machine°
- ✓ And all small appliances such as a jug, toaster, and microwave with a maximum power rating under 1,500W. Small appliances create variable loads; please discuss planned usage with your trusted AA Solar Engineer. Do remember not to use all appliances at once. You have a total of 4kW continuous, 5kW for 15mins, and 8kW for 5sec (values at 25°C) available.

This System can not support high wattage equipment such as electric induction cooking and ovens.

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 – Two-years

Battery – Five-year Conditional Warranty

Mounting System – Ten-years

Popular Upgrade:

We can also lift the available power with a Lithium Battery/ Inverter Package, which delivers more power while taking up less space.

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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