Waihi Studio Off-Grid Solar System

With average power usage of 3-5kWh/day^
One Day Battery Autonomy

$10,930*

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
- ✓ 2.73kWp Solar Panel Array (6x 455W)
- ✓ 9.6kWh (4.8kWh usable) Battery Bank
- ✓ Inverter/Charger

The AA Solar Waihi Studio Off-Grid Solar System is perfect for small lodgings such as tiny homes, sleepouts, granny flats (used full or part-time). This System is designed for situations where daily power usage does not exceed 3-5kWh, and this System will supply power where the continuous load max is 2400W AC.

We highly recommend increasing your days' autonomy from one day's reserve to cover those dull stormy days. We can add more panels to your System and upgrade the battery bank (see Popular Upgrades).

Tell Me More:

This Waihi Studio Off-Grid Solar PV System is the ideal System for people expecting to use an average of 3-5kWh/day and where the amount of load required is 2.4kVA continuous and up to 4.8kVA 5sec peak (values at 25°C). It comes with a 2.73kW Solar Array and a 9.6KWh 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. We also include conduits, cables and miscellaneous items for the System that comply with AS/NZ Standards. We can supply the System prewired upon request.

System Inclusions:

- Fully integrated Off-Grid power System (can be offered as a prewired solution upon request)
- 6 x 455W Solar Panel Silver PERC Half Cell
- 48V 200Ah C10 Battery Bank
- Inverter/Charger
- Temperature Sensor
- Tilt mounting kit
- A comprehensive Installation kit: fuses, cables, adjustable pitch mounting system, clips, screws etc.
- A complete set of documentation for electrical registration and sign-off

How Much Power Will I have?

Your System has six panels; the 2.73kW solar arrays' average daily power production will be between 4-6kWh in winter and up to 9-12kWh in summer.

What Can Be Powered:

This System can meet all the power requirements of a typical tiny home with gas cooking and hot water, provided that the total power draw at any one time does not exceed 2.4kVA continuous.

- ✓ Up to 10 LED Lights
- ✓ Small under bench or Dometic Fridge
- ✓ TV with power rating less than 400W (LED/LCD up to 40")
- ✓ And all small appliances such as jug, toaster, microwave as long as they have a maximum power rating under 1,000W; which should be used one at a time.
- ✓ Small washing machine on a cold wash

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. Which will 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 Upgrades:

All systems can be tailored to your individual needs by our highly qualified solar engineers. Our most common upgrade provides backup power for low light days.

One Day Autonomy	Two Day Autonomy	Four Day Autonomy
$10,930* inc GST	$15,080* inc GST	$27,570* inc GST

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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