OFFGRID NORTHLAND

We have a variety of kits suiting different budgets and needs. Our base level Epever kits, standard Victron kits and premium Victron kits. All our off grid solar systems include Tier 1, premium Aiko N-type solar panels.

*USABLE DAILY POWER

Usable daily power (kWh per day ratings) are based on 4 hours of peak sun daily. This will vary, up or down depending on where you live in New Zealand and assumes your panels are North facing and unshaded.

BATTERY STORAGE

kWh battery storage quoted is maximum, this is not a representation of how much should be used on a daily basis. Usable daily battery storage is dependent on battery type, AGM, lead carbon or lithium and also how many years of life you want from your batteries.

SOLAR PANEL MOUNTING

All kits come with Z bracket kits for securing panels to a ground mounted timber frame.
We have fixed roof mount rails for $99 per panel or adjustable tilt roof mount rails for $149 per panel.
For complete aluminium ground mounting contact Simon.

DELIVERY / PICKUP

Kits can be picked up from our yard in Kamo, Whangarei by appointment or delivered to mainland for $300-$800 depending on location.

INSTALLATION WARNING

These kits hold and create enough power to cause fatal injuries and burn your house down if incorrectly installed. We provide simple installation instructions for hardware **ONLY**. For your own safety and compliance, **final connection and power up MUST BE DONE by an electrician, certified to do so.**

WARRANTY*

Sunwaytech Solar Panels - 30 year performance warranty.
Aiko Solar Panels - 30 year performance warranty
Lead Carbon Batteries - 5 year warranty
BSL BATT Lithium Lifepo4 - 10 year warranty
Victron Components - Standard 5 year warranty, extendable to 10 years at extra cost.
Epever Components - 2 year warranty.
***All warranties are conditional to evidence of correct installation and system sizing.**

Offgrid solar kits

Everything you need to get powered up fast

EPEVER 1.7kWh VAN KIT ~ $2,199

The van kit gives you everything you need to get your van, caravan or mobile home, fully powered up off the grid.

This setup will give you approximately 1.7kwh* of usable power per day and 2.5kWh of battery storage.

Perfect for a mobile home using minimal electrical power, powering a small DC12V fridge, led lighting and laptop/phone charging.

USABLE DAILY POWER* - 1.7kWh
BATTERY STORAGE - 2.5kWh
SOLAR PANEL - 470w

KIT COMPONENTS
- 470W Aiko solar panel
- 12V 200Ah Lead carbon battery
- Epever 12V 1000W pure sine wave inverter
- Epever 40A BT MPPT Solar controller
- 100A Aili Battery monitor
- Solar panel Z bracket mounting kit (roof rails and tilt options available at extra cost)
- Installation hardware
    - 10 meters, 2.5mm2 solar cable including MC4 connectors
    - 2 meters, 35mm2 battery cable including terminals
    - Isolator switch
    - Inline fuses

OFFGRID NORTHLAND

Victron 3.4kWh TITCHY HOUSE KIT ~ $3,899

The Titchy house, off-grid kit gives you all you need to get your very tiny house or mobile home, fully powered up off the grid.

This Setup will give you approximately 3.4kwh* of usable power per day and 5kWh of battery storage.

This kit can power a titchy house or RV with a small DC12V fridge, led lighting, laptops and phone charging. Minimal use of T.V. with a bit to spare on sunny days.

USABLE DAILY POWER* - 3.4kWh*
BATTERY STORAGE - 5kWh
SOLAR ARRAY - 840W

KIT COMPONENTS

-2 x Aiko 470W Solar panels

-2x 12V 200Ah Lead carbon batteries

-Victron smart solar, MPPT controller, 100v/ 30A

-24V 1200VA Victron Phoenix Inverter

-300A Victron Smart Shunt for battery monitoring

-12 x Z brackets for panel mountings (Roof rails or tilt mountings available for extra cost)

-Optional extra, Victron Orion DC-DC charger for charging batteries from your mobile home alternator ($480 - $720 depending on alternator capacity)

- 10 meters, 6mm2 solar cable including MC4 connectors
- 2 meters, 35mm2 battery cable including terminals
- Isolator switch
- Inline fuses
- 4-way Distribution box including circuit breakers

EPEVER 10.8kWh SMALL HOUSE KIT ~ $7,699

This small house, off-grid kit gives you all you need to get you fully powered up off the grid for a small household.

You can produce approximately 11kWh* of usable power per day and enjoy 10kWh of battery storage. This kit contains carefully selected, lower cost, quality equipment for those on a budget, giving you many years of reliable, hassle free power!

Perfect for the batch or simple living for a small family household. There is enough power for a small, efficient fridge/freezer, led lighting throughout, a washing machine on cold wash or with water heated by califont. Laptop/phone charging, minimal T.V. usage and some power left over for minimal use of kitchen utensils, blenders, juicers,etc. On full sunny days you can get the power tools out for some DIY projects.

USABLE DAILY POWER* - 10.8kWh
BATTERY STORAGE - 10kWh
SOLAR ARRAY - 2.7kW

KIT COMPONENTS

- 6 x 470W Aiko solar panels
- 4 x 12V 200Ah Lead carbon batteries
- Epever 24V 3500W inverter/charger
- 350A Aili Battery monitor
- 6 x Solar panel Z bracket mounting kits for timber frame
  (roof rails and tilt options available at extra cost)
- Installation hardware

- 40 meters, 6mm2 solar cable including MC4 connectors
- 4 meters, 35mm2 battery cable including terminals
- 15 meters, 6mm2 solar grounding cable
- Solar panel earthing kit
- 125A MCCB in IP65 enclosure (Main system isolator)
- Inline fuses
- 4-way Distribution box including circuit breakers

OFFGRID NORTHLAND

EPEVER 18kWh MEDIUM HOUSE KIT ~ $11,499

Our Epever, medium house, off-grid kit gives you all you need to get you fully powered up off the grid.

You can produce approximately 17kWh* per day of usable power and relax with 20kWh of battery storage. This kit contains carefully selected, lower cost, quality equipment for those on a budget, giving you many years of reliable, hassle free power!

With around 17kWh to play with, this is suitable for running a medium sized home with a large, efficient fridge, a small chest freezer, washing machine, minimal use of an efficient heat pump, and moderate use of microwave or electric kettle. On full sun days, with power to burn, get out your grunty power tools for your DIY projects.

USABLE DAILY POWER - 18kWh*
BATTERY STORAGE - 20kWh
SOLAR ARRAY - 4.5kW

KIT COMPONENTS

- 10 x 470W Aiko solar panels
- 8 x 12V 200Ah Lead carbon batteries
- Epever 48V 5500W inverter/charger
- 350A Aili Battery monitor
- 10 x Solar panel Z bracket mounting kits for timber frame
  (roof rails and tilt options available at extra cost)
- Installation hardware

- 40 meters, 6mm2 solar cable including MC4 connectors
- 4 meters, 35mm2 battery cable including terminals
- 15 meters, 6mm2 Solar grounding cable
- Solar panel earthing kit
- 125A MCCB in IP65 enclosure (Main system isolator)
- Inline fuses
- 4-way Distribution box including circuit breakers

EPEVER 25kWh LARGE HOUSE KIT ~ $17,699

Our Epever, large house, off-grid kit gives you all you need to get fully powered up off the grid.

You can produce approximately 25kWh* per day of usable power and relax with 30kWh of battery storage. Enough to power an efficiently run, large family home. This kit contains carefully selected, lower cost, quality equipment for those on a budget, giving you many years of reliable, hassle free power!

With this kit you could run a large efficient fridge, medium sized chest freezer, washing machine, go a bit silly on the TV, even run an efficient heat pump. With led lighting throughout and laptops and phones can be kept charged. Moderate use of electric kettle, toaster and microwave. Full sunny days, you can go for it with those larger building projects with your power tools and get creative in the kitchen with blenders, juicers, etc.

USABLE DAILY POWER* - 25kWh
BATTERY STORAGE - 30kWh
SOLAR ARRAY - 6.3kW

KIT COMPONENTS

- 14x 470W Aiko solar panels
- 12x 12V 200Ah Lead carbon batteries
- Epever 48V 5500W inverter/charger (11kW optional upgrade)
- 350A Aili Battery monitor
- 14x Solar panel Z bracket mounting kits for timber frame
  (roof rails and tilt options available at extra cost)
- Installation hardware

  - 50 meters, 6mm2 cable including MC4 connectors
  - 6 meters, 35mm2 battery cable including terminals
  - 20 meters, 6mm2 solar grounding cable
  - Solar panel earthing kit
  - 125A MCCB in IP65 enclosure (Main system isolator)
  - Inline fuses
  - 4-way Distribution box including circuit breakers

OFFGRID NORTHLAND

VICTRON 10.8kWh SMALL HOUSE KIT ~ $8500

This small house, off-grid kit gives you all you need to get you fully powered up off the grid for a small household.

Produce approximately 11kWh* per day of usable power and enjoy 10kWh of battery storage. This kit contains carefully selected, lower cost, quality equipment for those on a budget, giving you many years of reliable, hassle free power!

Perfect for the batch or simple living for a small family household. There is enough power for an efficient, small, efficient fridge/freezer, led lighting throughout, a washing machine on cold wash or with water heated by gas califont. Laptop/phone charging, minimal T.V. usage and some power left over for minimal use of kitchen utensils, blenders, juicers,etc. On full sunny days you can get the power tools out for some DIY projects.

USABLE DAILY POWER* - 10.8kWh
BATTERY STORAGE - 10kWh
SOLAR ARRAY - 2.7kW

KIT COMPONENTS

- 6 x 470W Aiko solar panels
- 4 x 12V 200Ah Lead carbon batteries
- Victron Multiplus II 48V 3kVA inverter/charger,
- Victron 150V, 45A MPPT smart solar controller
- Victron smart shunt (for battery monitoring)
- 6 x Solar panel Z bracket mounting kits for timber frame
  (roof rails and tilt options available at extra cost)
- Installation hardware

  - 40 meters, 6mm2 solar cable including MC4 connectors
  - 4 meters, 35mm2 battery cable including terminals
  - 2 meter, 16mm2 controller cable
  - 15 meters, 6mm2 solar grounding cable
  - Solar panel earthing kit
  - 125A MCCB in IP65 enclosure (Main system isolator)
  - Inline fuses
  - 4-way Distribution box including circuit breakers

OFFGRID NORTHLAND

VICTRON 18kWh MEDIUM HOUSE KIT ~ $14,100

Our Victron medium house, off-grid kit gives you all you need to get you fully powered up off the grid.

Produce approximately 18kWh* per day of usable power and relax with 20kWh of battery storage. This kit contains carefully selected, lower cost, quality equipment for those on a budget, giving you many years of reliable, hassle free power!

With 17kWh to play with, this is suitable for running a medium sized home with a large, efficient fridge, a small chest freezer, washing machine, minimal use of an efficient heat pump, and moderate use of microwave or electric kettle. On full sun days, with power to burn, get out your grunty power tools for your DIY projects.

USABLE DAILY POWER* - 18kWh
BATTERY STORAGE - 20kWh
SOLAR ARRAY - 4.5kW

KIT COMPONENTS

- 10 x 470W Aiko solar panels
- 8 x 12V 200Ah Lead carbon batteries
- Victron Multiplus II, 48V 5kVA, inverter/charger
- Victron 250V, 100A MPPT smart solar controller
- Victron smart shunt (for battery monitoring)
- 10 x Solar panel Z bracket mounting kits for timber frame
  (roof rails and tilt options available at extra cost)
- Installation hardware

  - 40 meters, 6mm2 solar cable including MC4 connectors
  - 4 meters, 35mm2 battery cable including terminals
  - 2 meter, 16mm2 controller cable
  - 15 meters, 6mm2 Solar grounding cable
  - Solar panel earthing kit
  - 125A MCCB in enclosure (Main system isolator)
  - Inline fuses
  - 4-way Distribution box including circuit breakers

VICTRON 28.8kWh LARGE HOUSE KIT ~ $21,699

Our Victron large house, off-grid kit gives you all you need to get fully powered up off the grid.

Produce approximately 29kWh* per day of usable power and relax with 30kWh of battery storage. Enough to power an efficiently run, large family home. This kit contains carefully selected, lower cost, quality equipment for those on a budget, giving you many years of reliable, hassle free power!

With this kit you could run a large efficient fridge, medium sized chest freezer, washing machine, go a bit silly on the TV, even run an efficient heat pump. With led lighting throughout and laptops and phones can be kept charged. Moderate use of electric kettle, toaster and microwave. Full sunny days, you can go for it with those larger building projects with your power tools and get creative in the kitchen with blenders, juicers, etc.

USABLE DAILY POWER* - 28.8kWh
BATTERY STORAGE - 30kWh
SOLAR ARRAY - 7.5kW

KIT COMPONENTS

- 16 x 470W Aiko solar panels
- 12 x 12V 200Ah Lead carbon batteries
- Victron Multiplus II, 48V 8kVA,inverter/charger
- 2 x Victron 250V, 70A MPPT smart solar controller
- Victron smart shunt (for battery monitoring)
- 16 x Solar panel Z bracket mounting kits for timber frame
  (roof rails and tilt options available at extra cost)
- Installation hardware

  - 60 meters, 6mm2 cable including MC4 connectors
  - 8 meters, 70mm2 battery cable including terminals
  - 2 meter, 16mm2 controller cable
  - 20 meters, 6mm2 solar grounding cable
  - Solar panel earthing kit
  - 200A MCCB in enclosure (Main isolator)
  - Inline fuses
  - 4-way Distribution box including circuit breakers

OFFGRID NORTHLAND

PREMIUM VICTRON 14.5kWh SMALL HOUSE KIT ~ $15,100

Premium, top end off-grid solar kit for a small household.

All you need to power up off the grid.

Produce approximately 14.5 kWh* per day of usable power and enjoy 10kWh of battery storage. All components are top quality and reliable, guaranteeing many years of trouble free power.

USABLE DAILY POWER* - 14.5kWh
BATTERY STORAGE - 10kWh
SOLAR ARRAY - 3.6kW

KIT COMPONENTS
- 8 x 470W Aiko solar panels
- 51V, 200Ah BSL BATT Lithium Lifepo4, wall mount battery
- Victron Multiplus 5kVA inverter/charger
- Victron 250V, 100A MPPT solar controller
- Victron Cerbo GX control unit
- Victron Cerbo touch screen monitor
- Victron Lynx distribution board
- 8 x Solar panel Z bracket mounting kits for timber frame (roof rails and tilt options available at extra cost)
- Installation hardware.

- 50 meters, 6mm2 solar cable including MC4 connectors
- 4 meters, 35mm2 battery cable including terminals
- 15 meters, 6mm2 solar grounding cable
- Solar panel earthing kit
- 125A MCCB in enclosure (Main system isolator)
- Inline fuses
- 4-way Distribution box including circuit breakers

OFFGRID NORTHLAND

PREMIUM VICTRON 21.5 kWh MEDIUM HOUSE KIT ~ $23,300

Our Victron medium house, off-grid kit gives you all you need to get you fully powered up off the grid.

Harvest 21.6 kWh* per day of usable power and enjoy 10kWh of battery storage. All components are top quality and reliable, guaranteeing many years of trouble free power.

With 21.5 kWh to play with, this is suitable for running a medium sized home with a large, efficient fridge, a small chest freezer, washing machine, minimal use of an efficient heat pump, and moderate use of microwave or electric kettle. On full sun days, with power to burn, get out your grunty power tools for your DIY projects.

USABLE DAILY POWER* - 21.5kWh
BATTERY STORAGE - 20kWh
SOLAR ARRAY - 5.6kW

KIT COMPONENTS

- 12 x 470W Aiko solar panels
- 2 x 51V 200Ah BSL BATT Lifepo4, wall mounted batteries
- Victron Multiplus II, 48V 5kVA inverter/charger
- Victron 250V, 100A MPPT smart solar controller
- Victron Cerbo GX control unit
- Victron Cerbo touch screen monitor
- Victron Lynx distribution board
- 10 x Solar panel Z bracket mounting kits for timber frame
  (roof rails and tilt options available at extra cost)
- Installation hardware

  - 50 meters, 6mm2 solar cable including MC4 connectors
  - 4 meters, 35mm2 battery cable including terminals
  - 15 meters, 6mm2 Solar grounding cable
  - Solar panel earthing kit
  - 125A MCCB in IP65 enclosure (Main isolator switch)
  - Inline fuses
  - 4-way Distribution box including circuit breakers

OFFGRID NORTHLAND

PREMIUM VICTRON 36kWh LARGE HOUSE KIT ~ $37,999

Our Premium Victron large house kit gives you all you need to get fully powered up off the grid.

Produce approximately 36kWh* per day of usable power and relax with 30kWh of battery storage. Enough to power an efficiently run, large family home. All components are top quality and reliable, guaranteeing many years of trouble free power.

With this kit you could run a large efficient fridge, medium sized chest freezer, washing machine, go a bit silly on the TV, even run an efficient heat pump and conservative use of an electric oven. With led lighting throughout and laptops and phones can be kept charged. Moderate use of electric kettle, toaster and microwave. Full sunny days, you can go for it with those larger building projects with your power tools and get creative in the kitchen with blenders, juicers, etc.

USABLE DAILY POWER* - 36kWh
BATTERY STORAGE - 30kWh
SOLAR ARRAY - 9.4kW

- 20 x 470 Aiko solar panels
- 3 x 51V 200Ah BSL BATT Lifepo4, wall mounted batteries
- Victron Multiplus II, 48V 8kVA inverter/charger
- 2 x Victron 250V, 100A MPPT smart solar controller
- Victron Cerbo GX control unit
- Victron Cerbo touch screen monitor
- Victron Lynx distribution board
- 20 x Solar panel Z bracket mounting kits for timber frame
  (roof rails and tilt options available at extra cost)
- Installation hardware

  - 100 meters, 6mm2 cable including MC4 connectors
  - 6 meters, 35mm2 battery cable including terminals
  - 20 meters, 6mm2 solar grounding cable
  - Solar panel earthing kit
  - 200A MCCB in IP65 enclosure (Main system Isolator switch)
  - Inline fuses
  - 4-way Distribution box including circuit breakers