

WHATPO

**WHATPOWERCRISIS.COM**

ALTERNATE POWER SOLUTIONS Ph 0508 942 876

**Power Station System  
2009 Model Range  
AS5033 Compliant**



Please note all warranty is return to WPC, Warranty varies depending on product, Price excludes delivery charges.  
Registered Electrician available for installation in most areas

POWER  
OUTS

## What Power Crisis “Power Station”

*We can supply you a range of complete off-grid systems, built from high quality components for an extended trouble free service life.*

Our systems are made up from five parts:

### **Power Electronics**

Inverters, Battery Chargers, Solar Controllers and Power Boxes, all designed to meet NZ standards.

### **Connection and Wiring**

A steel Mounting Panel provides a platform to hold the power electronics, wiring, switching, and control circuitry. 240 Volt output is routed to a standard electrical power box.

### **Power Generation**

This is normally Solar Photovoltaic Modules, but Wind Turbines and Hydro systems can be added at order or at a later date.

### **Storage**

A battery bank of the appropriate size can be either low maintenance sealed AGM, or a more robust “wet” battery bank.

### **Backup Power**

A generator provides battery charging when insufficient solar power is available or when high loads are required.

## **Off Grid Standard 3 Bedroom House System WPC-OF01**

We have designed this system to cater for a standard 3 bedroom house, using gas or solar heating for hot water and cooking.

We have specified 670 Amp hours of battery bank, which will be sufficient to cover a day or two of cloudy weather when solar power is absent.

For this system we are supplying over 1200 watts of solar panels, which comfortably recharge the batteries on an average sunny winter’s day.

The inverter is rated at 3000 watts of pure-sine wave power, sufficient for nearly all household appliances.

*Battery capacity, Inverter size and number of solar panels can be increased or reduced to cater for specific customer needs.*

A diesel generator is included to recharge the batteries during extended cloudy periods. The system can automatically start and stop the generator at pre-programmed battery levels to manage the battery charge and extend battery life.

## The Outback Advantage

The control and power electronics in this system are all Outback brand products, designed and manufactured in the USA. All Outback components have a 2 year warranty. The components are:

### **FX3024 Inverter/Charger**

A combined 3kW inverter and 85 amp battery charger, with automatic transfer and bypass for generator power input.

### **FM80**

A 80 amp 120 volt MPPT solar panel controller with support for dump load switching

### **FLEXnet DC Monitor**

An optional DC monitor that will measure and report the power delivered to and taken from the batteries. Up to 3 shunts are supported.

### **MATE Computer**

This is the control computer that is connected to all the other components and allows remote monitoring and control of all aspects of the system. The Mate also has a serial port for communications, and many 3rd party applications are available to monitor your system.

### **Battery Temperature Sensor**

A Battery Temperature Sensor is included to ensure the battery bank is charged at the correct rate in all environments.

## NEW System Options



### **FLEXnet™ DC Multichannel Advanced DC System Monitor.**

**Monitors up to 3 shunts**

DC	-1DAY min	SOC	88%
In	12AH		0.71kWH
Out	25AH		1.32kWH
Bat	-13AH		-0.6kWH

### **Ask about our Hydro upgrade**



## The Golden Rule

***"Its cheaper to save energy than it is to store and make it."***

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# WPC OFF-Grid System Package

model WPC-OF001



**Complete Turn Key systems**, built to high standards using the best quality components available and designed for a long and trouble free life the WPC-OF01 system can be expanded up to 8 VFX3024e Inverters, provision has already been made on the standard system for dual inverters. With a standard generator start/stop relay, Mate LCD system controller with optional data logging software this system is ready for expansion when required.

Qty	Item	Notes
1	Kipor 5kVa Diesel Generator 1 year RTB warranty	Includes remote 2 wire start stop. LCD Hour Meter, controlled by Outback System.
12	2v Exide 6RP670, 24V Battery Bank 5 Year pro rata warranty at nearest Exide depot	Long life wet batteries. Larger banks available. Included: Battery links, Inverter cables and Plastic Battery boxes. Auto water optional.
6	Mitsubishi 180W Solar Panels (10 modules recommended) 25 year performance warranty, Made in Japan	MC4 connectors, the standard Outback FM80 solar regulator can handle up to 10 of these modules. Optional Solar Tracker.
1	WPC Outback System 2 Year warranty on all Outback products and panel. Contains: Outback VFX3024e 3kW/85A Inverter Charger, Outback FM80 Solar Controller, Outback Hub4, Outback Mate2 controller and RTS. WPC panel and AC/DC boxes. Pre-wired & installed on panel	We supply a comprehensive system manual. This contains product and user manuals for all components, as well as wiring diagrams, cable size calculations, specification sheet and a copy of your invoice.  <i><b>Our goal is to provide you with an dependable off grid system that supplies grid quality power with as little maintenance as possible.</b></i>



Price **\$34,000**

**Demonstration System available for viewing in South Auckland**

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# WPC OFF-Grid Mini Package

model WPC-OF002



Price **\$19,995**

For customers who don't require the full Outback System we can now offer a "mini system" at reduced cost. While still retaining the powerful 3kW Outback VFX3024e and FM60 solar controller we have simplified the control box and reduced the package size. This system can still be expanded with other Outback accessories, larger batteries and more PV.

Qty	Item	Notes
4	12v Exide 12RP200, 24V Battery Bank 3 Year pro rata warranty at nearest Exide depot	Long life wet batteries. Larger banks available. Included: Battery links & Battery Cables

## **EXIDE** ENERGYSTORE - 12V Flooded Blocks

### Electrical Specifications

### Individual Tray Details

### Physical Specifications

TYPE	Amp Hour Capacity at 25°C					Voltage	Short Circuit Current Amps
	C <sub>120</sub> to 1.80Vpc	C <sub>100</sub> to 1.85Vpc	C <sub>20</sub> to 1.85Vpc	C <sub>10</sub> to 1.80Vpc	C <sub>5</sub> to 1.70Vpc		
12RP140	140	135	110	100	95	12	900
12RP200	200	194	165	150	142	12	1200

TYPE	Weight Kgs +/- 5%	Individual Tray Details		
		Length (mm)	Width (mm)	Height (mm)
12RP140	45	510	180	270
12RP200	66	519	275	270



### Features

- Excellent cycle\* life  
1000 cycles to 80% DOD  
2300 cycles to 30% DOD
- Long life and Low maintenance

\*at the ten hr discharge

- 1600 cycles to 50% DOD
- 3000 cycles to 10% DOD

- Tubular Positive Plates
- Easy to transport and assemble
- Large electrolyte reservoir
- Electrolyte level indicator- optional

4	Mitsubishi 180W Solar Panels 20 year performance warranty, Made in Japan	The standard Outback MX60 solar regulator can handle up to 12 of these modules.
1	New WPC Outback Mini System 2 Year warranty on all Outback products and panel. Contains: Outback VFX3024e 3kW/85A Inverter Charger, Outback FM60 Solar Controller, WPC panel and AC/DC boxes. Pre-wired & installed on panel	We supply a comprehensive system manual. This contains product and user manuals for all components, as well as wiring diagrams, cable size calculations, specification sheet and a copy of your invoice.  <i><b>Our goal is to provide you with an dependable off grid system that supplies grid quality power with as little maintenance as possible.</b></i>

# Options

Pricing only available at system purchase) Includes GST

<b>Air Breeze Land 24V Wind Turbine and 10M tower</b>	<b>\$2395</b>
<b>Outback Flex DC Battery Computer, inc 2 x shunts setup additional</b>	<b>\$850</b>
<b>Wet Battery Maintenance Kit</b>	<b>\$150</b>
<b>Lorentz Solar Tracker Model ETA1000, + \$250 delivery fee</b> Will support 6 Sharp 162 W modules, maximum 9 modules for ETA1500 model.	<b>\$4295</b>
<b>Ecolnnovation Smart drive Hydro Turbine with electronics to battery</b> Subject to site appraisal, charges may apply.	<b>\$2795</b>
<b>Mitsubishi180W Modules (each)</b> Supplied in pairs.	<b>\$2000 /each</b>
<b>Mitsubishi 110W Modules (each)</b> Supplied in pairs	<b>\$1265 /each</b>
<b>Standards approved roof mounting kit for 6 Large Modules</b> Aluminium, NZ Made, Lightweight.	<b>\$1195</b>
<b>Kipor KDE16SSP 10Kw Water Cooled 1500RPM Diesel Generator</b> 2 Wire Start, 4 Cylinder, Super Quiet 55db @7M, Outdoors ready fully waterproof enclosure. Approx 2L/ Hour at 1/2 Load. 60L internal tank. 850kgs.	<b>\$14,995</b>
<b>Lorentz 24v Mains Pressure domestic water pump &amp; kit</b> 3 models available.	<b>\$2295</b>
<b>Steca PF166 12/24v Fridge or Freezer 166L, 70wh /day in fridge mode</b>	<b>\$2995</b>
<b>Pre purchase consultancy (refunded on purchase)</b>	<b>\$195</b>
<b>Electrical Installation work + travel</b>	<b>\$55 /Hour</b>

**Call Toll Free on 0508 942876 (+64 9 2947703)**

**To discuss your requirements.**



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Local What Power Crisis Dealer

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# Steca Off Grid Fridge / Freezer Bundle

\$4,495

Steca 12/24v Low Energy Fridge or Freezer

Steca PR1010 Solar Regulator

Mitsubishi 110W Solar Module, 30W (Fridge Use Only) package \$3395

Exide Relay Gel 12v 120Ah @ C100 Gel Battery



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