



# Solarrelief

OFF GRID PORTABLE SOLAR SURVIVAL

PORTABLE ENERGY  
GENERATION AND STORAGE  
SOLUTIONS FOR NATURAL  
DISASTERS, CYCLONES  
AND REMOTE OFF-GRID  
ENVIRONMENTS



NEVER AGAIN BE A VICTIM OF A POWER OUTAGE.  
OWN A PPS SYSTEM AND PRODUCE, STORE AND USE YOUR OWN  
ELECTRICITY ANYWHERE, ANYTIME.

GET AHEAD OF THE NEXT  
NATURAL DISASTER WITH A  
PORTABLE POWER SUPPLY  
(PPS) SYSTEM:

- Australian designed, manufactured and patented\*
- Approved by Australian military
- Provides a fully portable, off-grid power solution
- Ready to plug into new or existing solar panels or other sources of energy
- Provides a clean, surge protected power source for every device
- The PPS system is a unique complete modular package which has been innovated from the ground up.



THE PPS SYSTEM IS A FULLY SUSTAINABLE POWER SOURCE THAT USES SOLAR ENERGY (AMONGST OTHERS) TO PROVIDE A DIVERSE AND CUSTOMISED ELECTRICITY SOLUTION. IT PLUGS SEAMLESSLY INTO A HOME CIRCUIT AND REPLACES THE GRID BY PRODUCING AND STORING ITS OWN ELECTRICITY.

The PPS is self-sustainable and utilises renewable energy. It has the ability to connect additional battery power when additional storage is required, and multiple solar panels can be connected to increase charging efficiency.

PPS units are future-proof, allowing the ability to capitalise on new technologies by simply plugging in and powering up any application.

A modular plug and play storage system that can be easily customized according to specific requirements.

## FEATURES

- Worldwide patented technology
- Pure 12V 2000 W sine wave inverter (Standard 12V 3000w, can be customised to client requirements).
- 260 AmpH modular battery storage or Lithium Ion Phosphate battery storage with capacity of 12v 120AH with discharge rate of 80%. (This means that it will provide similar capacity to 12v 220 AH AGM batteries – this battery is half the weight of the standard one).
- Surge protection (built-in RCD and circuit breaker)
- Standard connections: 240V AC, 110V AC, 12V DC, 24V DC & USB
- Batteries are fully sealed, robust, insulated & maintenance free
- Battery lifespan is 8 - 10 years
- Up to x5 stackable additional battery storage can be added
- The system can be charged via mains power, generator, solar, wind or an alternator and has a deep cycle battery storage component.
- It comes with optional x 2 200w foldable, flexible, non-reflective, semi flexible portable solar panels or normal solar panels can be used

## BENEFITS

- No noise, no fumes, no fuel, no maintenance or ongoing costs
- Safe for all appliances and devices, including sensitive medical equipment
- Built to Australian and international standards
- Green, environmentally friendly and sustainable
- Customisable – can be connected to multiple fixed or portable solar panels or other energy sources
- Surge protection, low battery cutout and extreme temperature cutout
- Configured to prolong battery life
- Can be used in confined spaces or indoors
- Easily transportable by air, sea & road - no dangerous goods requirements
- Portable - small and light enough to be carried without using machinery or equipment



## APPLICATIONS

- Disaster relief
- Emergency power (including medical devices)
- Remote area (off-grid) power supply
- Transportable buildings and temporary accommodation
- Construction sites
- UPS system for servers and computer systems
- Camping, RV's, caravans, boats
- Residential houses to save costs on grid power

## OUR TARGET CUSTOMERS

- Government agencies & NGOs in war & disaster relief
- Armed forces (silent and invisible)
- Developing Nations (Communications, Water pumps, Lighting, Medical equipment, Education, Internet, etc)
- Mining & exploration (under and over-ground)
- Remote rural and agricultural systems support
- Temporary accommodation users
- Domestic users
- Tradesmen

## ABOUT US

The PPS is an Australian designed and Australian manufactured product that can be used in a variety of applications. It has been in development since 2011, in conjunction with the Australian Army and various international energy and technical experts. The product meets all Australian and International standards, and can be safely used for any application. The PPS was recently used during the Fiji cyclones to power-up remote schools that were without power for weeks following the cyclone.

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## VISION

Our vision is to continually develop the PPS system into the most efficient, multi-application product for use throughout the world. By utilising a sustainable, environmentally friendly energy source to provide a constant means of power, the PPS system can save lives and help communities thrive all year-round. Just one PPS system can provide enough power to run an entire school or village.

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## AWARDS

The Solar Relief PPS won the Overall and Major Invention Award at the 2015 FNQ Rotary Field Days Invention Competition.

The Rotary FNQ Field Days is held every two years on the Tablelands and put together by the Rotary clubs of Mareeba and Atherton. This event attracted more than 18,000 people in 2015 with 400 exhibitors on site. The PPS system was the clear winner amongst all the amazing inventions on display.

