



# SOLAR FOR TINY HOMES

*High Output - Reliable - Safe*



From our 30+ years of experience we know that due to the size and space limitations and our desire for a modern life with uninterrupted power demands, it is critical to choose equipment with **the best power output and highest reliability** for many, many years.

Our kits are designed to supply approximately 3kWh minimum per day of usable power (subject to numerous factors such as Geographical location, North orientation, roof pitch, shading, dirt, battery condition, etc) which will easily run a high efficiency fridge, lights and electronics such as phone and laptop chargers. We use a high power inverter so it can also run big loads such as a toaster, microwave, hairdryer, vacuum or power tools for short periods (<30mins). Washing machines and dishwashers may also be used during good sun light hours (cold wash only).

Your biggest load is most likely to be the **refrigerator**, so make sure you choose one with the highest efficiency possible. When buying, look for the lowest yearly KWH consumption figure. For example, the Electrolux eco series and LG inverter series are a good place to start as they are typically in the 300-400kWh per year range which is equal to around 1kWh per day.

NOTE! It is very important to do a thorough electrical load analysis during the design phase and we highly recommend **thermal hotwater** rather than LPG to minimise your lifetime costs.

## Together for a Better Future



# TINY HOME SOLAR KITS

*The Good - The Better and The best!*

Good kit: 1.2kW array + 11kWh storage (up to 3KWh per day)  

- 4x **Trina 300W** (+5W power tolerance) Tier-1 monocrystalline high efficiency panels with earth kit and triple mounting rails
- Solar DC cables and solar HD-T conduit
- Fully prewired solar switchboard: Includes **Outback FXR** inverter-charger, Kid 30A MPPT, Battery Monitor, solar DC breaker, Battery Fuses, one AC outlet, KWH meter, AC breakers, manual bypass switch and Internet connection for monitoring
- 8x sealed 6V 240Ah **AGM battery**
- Does not include installation, battery cable, emergency use generator or inlet, AC cable or house switchboard

Better kit: 1.2kW array + Expandable to 3KW + 11kWh storage   

- As above but with Classic150 MPPT and two spare inputs for a second future roof array, plus optional ground mount array (or vice-versa).

Best kit: 2.4kW array + Expandable to 3KW + 11kWh storage   

- As above but with 8x Trina 300W panels (4 per roof) to suit variable North orientation and/or mitigate shading plus one spare input for an optional ground mount array (or vice-versa).

Optional: Solar Hot Water 

- Solar Thermal Collector and 90L Hot Water Cylinder with wetback connections.

Call Dave Petrie, our Off-Grid specialist today for a free consultation