

Battery Bank Sizing and charging support

The following recommendations assume **average** use of standard equipment: water pumps, LED lights, TV, laptop and phone chargers etc. Experienced off-grid customers will understand that, when living off-grid, power consumption has to be managed and sometimes requires compromises. With intelligent use of available power, long term unsupported off-grid living is easily achieved, in most parts of Australia, with solar power alone. An alternate charging source (generator, vehicle alternator, etc.) for use during long periods without solar input may be required but most users report this will only be required on rare occasions.

How much battery capacity and charging support is needed depends primarily on how the boat or caravan/RV is used. Will you be spending the occasional long weekend away, holidaying for a week or two or living permanently in the boat or vehicle off-grid?

Recommendations are based on these three types of use.

Weekend Use = The system is able to support 2 days use with little or no solar input and 4 to 6 days with average solar input.

Holiday Use = The system is able to support 3 days with little or no solar input and 8 to 12 days with average solar input.

Full Time Living = The system is able to support 3 to 5 days with little or no solar input and indefinite periods with average solar input. An alternate charging source for longer periods without solar input may be required but most users report this will only be required on rare occasions.

RFU6809 + house loads

Weekend Use – Recommended battery bank: 240 amp hours. Recommended solar: 80 watts.

Holiday Use – Recommended battery bank: 300 amp hours. Recommended solar: 200 watts.

Full Time Living - Recommended battery bank: 300 amp hours. Recommended solar: 360 Watts. An alternate charging source (generator, vehicle alternator, etc.) may be required for use during long periods without solar input.

RFU8250/RFU9200 + house loads

Weekend Use - Recommended battery bank: 300 amp hours. Recommended solar: 120 watts.

Holiday Use - Recommended battery bank: 360 amp hours. Recommended solar: 300 watts.

Full Time Living - Recommended battery bank: 480 amp hours. Recommended solar: 480 watts. An alternate charging source (generator, vehicle alternator, etc.) may be required for use during long periods without solar input.

RFU 9009 + house loads

Weekend Use - Recommended battery bank 240 amp hours. Recommended solar 100 watts.

Holiday Use - Recommended battery bank 300 amp hours. Recommended solar 200 watts.

Full Time Living - Recommended battery bank 360 amp hours. Recommended solar 360 watts. An alternate charging source (generator, vehicle alternator, etc.) may be required for use during long periods without solar input.