

Description of Load	Watts	X	Hours per Day	=	Watt Hours / Day
Totals					

- 1) Total Watt Hours / Day x 1.1 for Inverter Inefficiency _____
- 2) Divide by Battery Voltage _____
- 3) Result = Amp Hours per Day _____
- 4) Multiply Line 3 by 1.2 for Battery Inefficiency _____
- 5) Actual Amp Hours per Day Required _____
- 6) Divide Line 5 by 0.5 as Batteries should not cycle more than 50% _____
- 7) Days of Battery Autonomy Needed _____
- 8) Multiply Line 6 by Line 7 = Battery Capacity Required _____

Instructions:

Divide Total Watt Hours/Day by Sun Hours. This will equal the Wattage Output of the PV Array.
 Configure Batteries in Series and or Parallel Strings to achieve Line 8 (Battery Capacity Required) at the Nominal Rated Battery Voltage.

