

# SOLAR SIZING WORKSHEET

How much power do you need? Consider how many days you'll be off the grid and how much power you'll use. Keep costs down by sizing for just what you need. Most Go Power! solar kits and systems are easily expandable as your power needs grow.

**Step 1: Fill in the quantity of items and number of hours each appliance runs per day.**

12V, DC Appliances	Amps	X Qty.	X Hours Run Per Day	= Total Amp Hours
LED Light	0.08			
Incandescent Light	1.25			
Water Pump	4			
12 Volt TV	3			
SC Fan*	4			
Furnace Fan*	8			
12 Volt Stereo	0.8			
Refrigerator	3			
Propane Alarm	0.21	1	24	5.04
Other				

\*Fan and furnace are not typically run at the same time.

120V, AC Appliances*				
AC Fridge**	10			
TV	4			
VCR	3			
Satellite Dish	4			
Microwave	100			
Toaster	66			
Coffee Maker	60			
Blender	12			
Computer	25			
Laptop Computer	5			
Other				

\*All amperage ratings are based on a 12 volt system.

\*\*Fridge amps based on a 4.4 cubic foot fridge, running 12-hours/day.

Total amp hours per day

**Step 2: Total Weekly Amps Calculation**

Multiply total amp hours per day from Step 1 by the number of days of use per week (i.e.: weekend camping: multiply total amp hours x 2 days).

Amps Per Day:	
<b>X</b>	
# of Days of Use Per Week:	
<b>=</b>	
Amp Hours Per Week	

\*When sizing your battery bank

**Step 3: Solar Power Output**

Match your power draw from Step 2 to the product listed below:

Amp Hours Per Week	Recommended Solar Kit (DC only)	AGM Battery Bank	Lithium Battery Bank
29	10W Eco Kit	100Ah	100Ah
55	20W Eco Kit	100Ah	100Ah
71	35W Solar Flex Kit	100Ah	100Ah
117	55W Solar Flex Kit	100Ah	100Ah
197	80W Eco Kit	200Ah	100Ah
193	90W Portable Solar Kit	200Ah	100Ah
191	100W DuraLite Kit	200Ah	100Ah
228	100W Retreat Kit	200Ah	100Ah
236	100W Solar Flex Kit	200Ah	100Ah
290	130W Portable Solar Kit	200Ah	100Ah
390	190W Overlander Kit	200Ah	100Ah
382	200W - 100W Duralite Kit + 100W Duralite Expansion Kit	200Ah	100Ah
470	200W Portable Solar Kit	200Ah	100Ah
470	200W Solar Flex Kit	200Ah	100Ah
781	380W 190W Overlander Kit + 190W Overlander Expansion Kit	400Ah	200Ah
573	300W - 100W Duralite Kit + 2x 100W Duralite Expansion Kits	400Ah	200Ah
1411	500W Solar Flex Kit	400Ah	200Ah
1172	570W - 190W Overlander Kit + 2x 190W Overlander Expansion Kits	400Ah+	200Ah+
1563	760W Solar All-Electric Kit	600Ah+	400Ah+
2344	1140W Solar All-Electric Kit	800Ah+	600Ah+
Recommended Complete Systems (DC and AC)			
390	190W Weekender System	200Ah	100Ah
781	380W Solar Elite System	400Ah	200Ah
1172	570W Solar Extreme System	400Ah+	200Ah+
1563	760W Solar AE 4 & IC Series Inverter/Charger	600Ah+	400Ah+
2344	1140W Solar AE 4 & IC Series Inverter/Charger	800Ah+	600Ah+

**MOST POPULAR KIT**

In this example, AC amps are converted to DC by multiplying by 10. This isn't 100% accurate, but it allows you to make AC to DC calculations quickly.



**A COMPANY YOU CAN TRUST**

Since 1996, Go Power! has provided solar power solutions to RVers, campers, and boaters. We have industry-leading warranties and excellent technical support.

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Please note: Amp hours based on 6 hours of usable light per day.