

# SOLAR SIZING WORKSHEET



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CALCULATOR

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:		
X		
# of Days of Use Per Week:		
=		
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
212	100W DuraLite Kit	200Ah	100Ah
228	100W Retreat Kit	200Ah	100Ah
236	100W Slim Kit	200Ah	100Ah
236	110W Solar Flex Kit	200Ah	100Ah
290	130W Portable Solar Kit	200Ah	100Ah
403	200W Overlander Kit	200Ah	100Ah
397	190W Eclipse Kit (FLEX)	200Ah	100Ah
403	200W Eclipse Kit (RIGID)	200Ah	100Ah
472	200W - 100W Duralite Kit + 100W Duralite Expansion Kit	200Ah	100Ah
472	200W - 100W Slim Kit + 100W Slim Expansion Kit	200Ah	100Ah
470	200W Portable Solar Kit	200Ah	100Ah
477	220W Solar Flex Kit	200Ah	100Ah
573	300W - 100W Duralite Kit + 2x 100W Duralite Expansion Kits	400Ah	200Ah
708	300W - 100W Slim Kit + 2x 100W Slim Expansion Kits	400Ah	200Ah
806	400W 200W Overlander Kit + 200W Overlander Expansion Kit	400Ah	250Ah
806	400W 200W Eclipse Kit + 200W Eclipse Expansion Kit	400Ah	250Ah
1192	550W Solar Flex Kit	400Ah	400Ah+
1209	600W - 200W Overlander Kit + 2x 200W Overlander Expansion Kits	400Ah	400Ah+
1190	570W - 190W Eclipse Kit (FLEX) + 2x 190W Eclipse Expansion Kits	400Ah	400Ah+
1209	600W - 200W Eclipse Kit (RIGID) + 2x 200W Eclipse Expansion Kits	400Ah	400Ah+
1612	800W Solar All-Electric Kit	800Ah+	800Ah+
2419	1200W Solar All-Electric Kit	1000Ah+	1000Ah+
Recommended Complete Systems (DC and AC)			
403	200W Weekender System	200Ah	100Ah
806	400W Solar Elite System	400Ah	250Ah
1209	600W Solar Extreme System	400Ah+	400Ah+
1612	800W Solar AE 4 & IC Series Inverter/Charger	800Ah+	800Ah+
2419	1200W Solar AE 6 & IC Series Inverter/Charger	1000Ah+	1000Ah+

**MOST POPULAR KIT**

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

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.



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