

SOLAR SIZING 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 |
|--------------------|------|--------|---------------------|-------------------|
| 10 Watt Light | 0.08 | | | |
| 15 Watt Light | 1.25 | | | |
| Water Pump | 4 | | | |
| 12 Volt TV | 3 | | | |
| SC Fan* | 4 | | | |
| Furnace Fan* | 8 | | | |
| 12 Volt Stereo | 0.8 | | | |
| Refrigerator | 0.4 | | | |
| Propane Alarm | 0.21 | 1 | 24 | |
| Other | | | | |

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

| 120V, AC Appliances* | Amps | X Qty. | X Hours Run Per Day | = Total Amp Hours |
|----------------------|------|--------|---------------------|-------------------|
| 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 12 voltage 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) | Suggested # of 12V Batteries |
|--|--|------------------------------|
| 24 | 10W Eco Kit | 1 |
| 48 | 20W Eco Kit | 1 |
| 71 | 30W Solar Flex Kit | 1 |
| 120 | 50W Solar Flex Kit | 1 |
| 185 | 80W Portable Solar Kit | 2 |
| 192 | 80W Eco Kit | 2 |
| 228 | 100W Retreat Kit | 2 |
| 236 | 100W Solar Flex Kit | 2 |
| 281 | 120W Portable Solar Kit | 2 |
| 371 | 170W Overlander Kit | 2 |
| 472 | 200W Solar Flex Kit | 4 |
| 742 | 340W Overlander Kit + Overlander Expansion Kit | 4 |
| 1155 | 500W Solar Flex Kit | 4 |
| 1113 | 510W Overlander Kit + 2x Overlander Expansion Kits | 4-6 |
| 1112 | 680W Solar All-Electric Kit | 4-6 |
| 2268 | 1020W Solar All-Electric Kit | 4-8 |
| Recommended Complete Systems (DC and AC) | | |
| 371 | 170W Weekender System | 2 |
| 742 | 340W Solar Elite System | 4 |
| 1113 | 510W Solar Extreme System | 4-8 |

MOST POPULAR KIT

Amp hours based on 6 hours of usable light per day.

