

American Independent Power

SES System Energy Guide

For SES 1: This Kit can provide up to 16.6 AMPs at 120VAC.
The Battery storage (12VDC) is rated at 250Ah (Amp Hours)
The pair of 330W solar panels are able, in full sun, to produce 3300 Watts per day to use/store in the battery string.

Using the 3300 Watts per day as the distribution model, it is possible to operate the following items whose average device energy consumption is below. It is always best to check the device energy consumption of your specific item to be certain, but we have selected industry standard items and the energy supplied and stored can generally be managed according to the listed items below.



Picture shows an example of SES Model 3

- **Refrigerator** (average hourly consumption) = 250Watts
- **Laptop** (average hourly consumption) = 65Watts
- **CPAP** (average hourly consumption) = 300Watts
- **Cell Phone** (average hourly consumption for charge) = 2.5Watts

Using the model of operating the refrigerator 3 hours per day (door must not be opened & closed often) the energy need for refrigeration is 750Watts
Operating a laptop for 3 hours will consume about 195Watts
Charging a cell phone for 3 hours will consume roughly 7.5Watts. and the CPAP at a 6-hour use, 1800Watts.

In this consumption model, a total of 2752.5 Watts will be consumed.

As you can see, there is additional energy for more or less time with each device as a safety factor. It is not recommended that unnecessary items or high current use items be used in this survival setting.

Each of the other 2 SES Kit sizes provides additional energy in either total Watts per day available or higher available current (Amps) or both, so that higher energy consuming critical devices can be accommodated.

This simple guide can be the difference between responsible management of energy resource or running out of power.

*You've made a wise choice in placing an
AIP SES Kit in your home.*