

# AIRPAX DIMENSIONS

Airpax Dimensions, Inc.  
4467 White Bear Parkway  
St. Paul, MN 55110-7626

(651) 653-7000  
Fax (651) 653-7600

**COMMENT SERIES**

**NOVEMBER 2006**

## How long will my inverter run? Recreational Vehicle

The following is intended to help answer this question. Since many variables including battery condition, temperature, and frequency of use affect actual inverter run time, the examples given may not represent your individual situation.

### The following assumptions apply to all the examples provided:

1. The specified load is operated continuously and no attempt is made to recharge the configured batteries during the calculated run time.
2. Battery configuration "A" includes a single auxiliary 12 VDC Group 31 deep cycle battery with a rated capacity of 105 AH.
3. Battery configuration "B" includes two auxiliary 12 VDC Group 31 deep cycle batteries with a total rated capacity of 210 AH.
4. Battery configuration "C" includes three auxiliary 12 VDC Group 31 deep cycle batteries with a total rated capacity of 315 AH.

### Example #1 (The inverter load includes a 19" TV in the 3 combinations shown)

Battery Configuration	Run Time (hrs)		
	w/DVD (130 watts)	w/VCR (150 watts)	w/ VCR & Satellite Receiver w/o dish positioning (220 watts)
A	6.7	5.5	3.3
B	15.3	12.9	8.2
C	24.2	21.0	13.3

### Example #2 (The inverter load includes a 19" TV/VCR in the 3 combinations shown)

Battery Configuration	Run Time (hrs)		
	w/2 incandescent lights (350 watts)	w/2 incandescent lights & desktop computer (500 watts)	w/2 incandescent lights, desktop computer, & 14 cu. ft. refrigerator – 50% compressor duty cycle (750 watts)
A	1.8	1.1	0.6
B	4.5	2.7	1.6
C	7.6	4.8	2.8