# Chapter 1, Solution 36

A battery may be rated in ampere-hours (Ah). A lead-acid battery is rated at 160 Ah.

(a) What is the maximum current it can supply for 40 h?

(b) How many days will it last if it is discharged at a rate of 1 mA?

**Solution**

(a) i = (160 Ah)/(40 h) = **4 A**

(b) t = (160 Ah)/(0.001 A) = (160,000 h)/((24 h)/day) = **6,667 days**