BATTERY SIZING

Components used in the project are;

* 2 DC motors
* Sensors (Force sensor and uv sensor)
* 1 Arduino Uno

2 DC motors working on 12V current consumed is 600mA.

2 Sensors working at 5V current consumed in total is 80mA.

1 Arduino working at 5V current consumed is 100mA.

Taking Factor of safety as 1.2

We need,

12V -720mA and 5V- 216mA.

System works for 4hrs so, we need 2 batteries

1. 12V-2.8Ah
2. 5V-0.86Ah

Batteries used are

1. 12V-3Ah.
2. 5V-1Ah.