**BATTERIES**

We are using LiPo batteries because they can the most electrical power with the least weight.

Also check solid state batteries ( it is said that they are the future)

characteristics of batteries:

1. voltage
2. capacity
3. max current you can draw from it

**capacity:** if it says 1000mAh it means that it will give 1 Amp for 1 hour until it is fully discharged.

!notice that when you are drawing more amps the capacity seems to be smaller. thus it discharges faster than expected.

( different discharging graph for different discharging rate)

**max current:** it is indicated with a number and a C. eg. 25C . C is the capacity.

in this example max current is 25 \* 1000mA = 25 A

!the more the \*C rating the bigger the weight of the battery

CHARGING

you can charge them with maximum current as much as the C rating

! never store the batteries charged

! there are different types of connectors for the lipo batteries ( check compatibility)

4S1P : indicated four cells in series (and one in parallel). each cell is 3.7 volts. so this battery is 14.8 volts.

Wh = Ah \* V (watthour)

to measure the voltage of your battery you can use a module called voltage meter Xs

X: the number of cells