## 4. Supercapacitors, Ragone Plot

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CAPACITORS

- · High hower density
- · No redox reactions
- · Storage in terms of MF
- · Rapid changing and discharging

9 X V

C= &A

## SUPERCAPACITORS J

- · High hower density
- · High cycle life
- · storage of electrical double
- · No redox reactions
- · Rapid discharging and changing

Anode: Ponous conton/graphene/carbon nanotubes

Cathade: Parous carbon/graphene/contron nanotubes

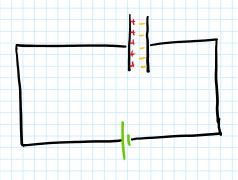
Electrolyte: KOH/H2804 1 Na, SO4

<u>Schanator</u>: Polypropylene

Disadvantages

Applications

Also called ultra capacitors. EDLC



Electrical Double Layer Capacitos

## Disadvantages Applications · Hybrid cons · Automobile industry · Low energy density · Repid discharging RAGONE PLOT FUEL CEUS I.C. ENGINES Supercapacitors: High PD, low ED Li-10N Ni-Cd Ph-ACID BATTERY BATTERY SUPERCAPACITORS CAPACITORS Power density (W/Kg)