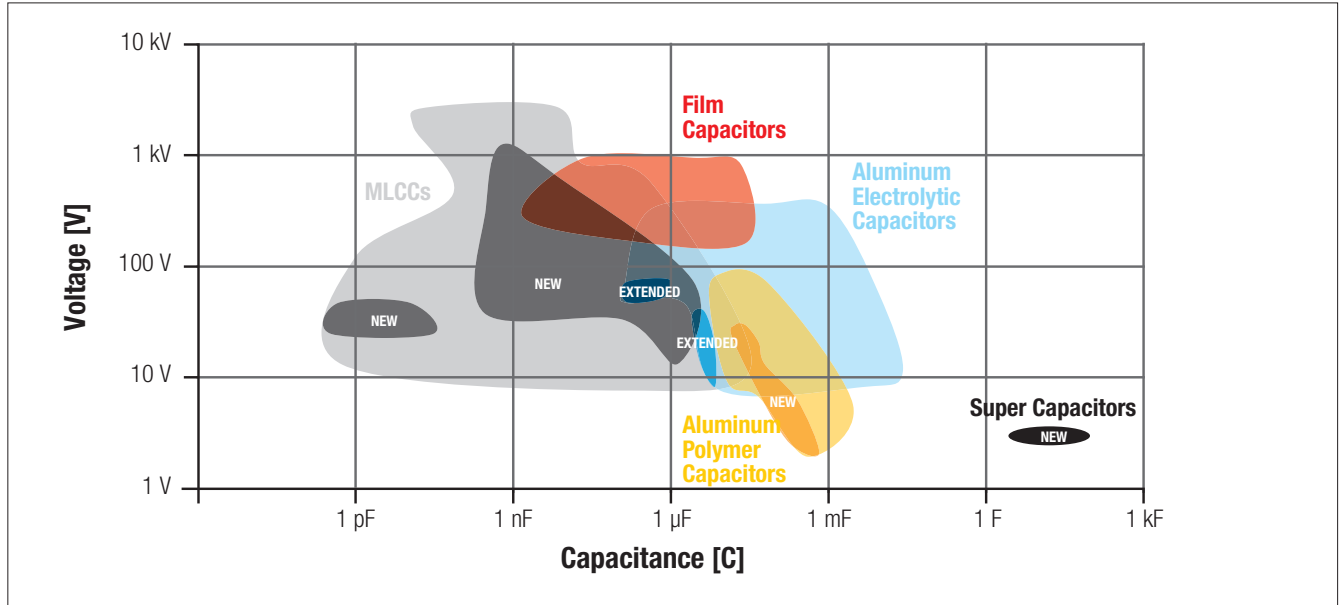


Product Portfolio

Portfolio Overview Capacitors



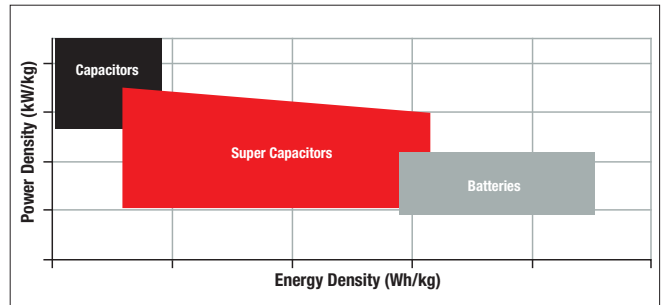
Super Capacitors (Electric Double Layer Capacitors – EDLCs)

Super Capacitors close the gap between capacitors and batteries



Super Capacitors have:

- Higher power density than batteries
- Higher energy density than other capacitors



Features

- Large charge storing capacitance
- Ultra low equivalent series resistance (ESR)
- Provide a fast charging and discharging within seconds or minutes
- Life cycle is about 500 times and power output about 10 times higher compared to usual batteries
- Depending on the field of applications – possible replacement for batteries
- Easy to use: No battery charging circuit is required to prevent overcharging

Applications



Storage devices for power-offline periods



Hybrid application with battery