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Clean energy storage solutions



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Game Changing Carbon based Power Capacitors at Work.

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Kurt.energy specialises in trustworthy clean energy system solutions. Our main working horse are carbon based power capacitors. We call them **Blue Cell Power Capacitors**.

Carbon based Power Capacitor

Based on carbon nano-materials, they bridge a gap between traditional Lithium based battery cells and supercapacitors, by using activated carbon as its active ingredient. No chemical reactions are involved when charging/discharging.

Power and Energy Density

New technology for storing electricity, offering an energy density that is similar to Lithium-ion battery cells (from 80 to 230 Wh/kg) but with a power density as found in supercapacitors (a few 100 to 1000's W/kg).

Benefits

- High Energy density
- High Power density
- No complex Battery Management System
- No thermal management needed
- No thermal runaway risk
- Operates and charges from -40°C till up to +80 °C. Safe and reliable at all temperatures
- Batteries are resilient in case cells fail
- Much longer lifetime
- Enable applications that are often not optimal when using lithium batteries
- High peak demands can be met with smaller battery packs
- Fast charging drastically reduces unproductive time
- Lower life cycle costs
- More energy can be captured from external sources
- Reduced system complexity

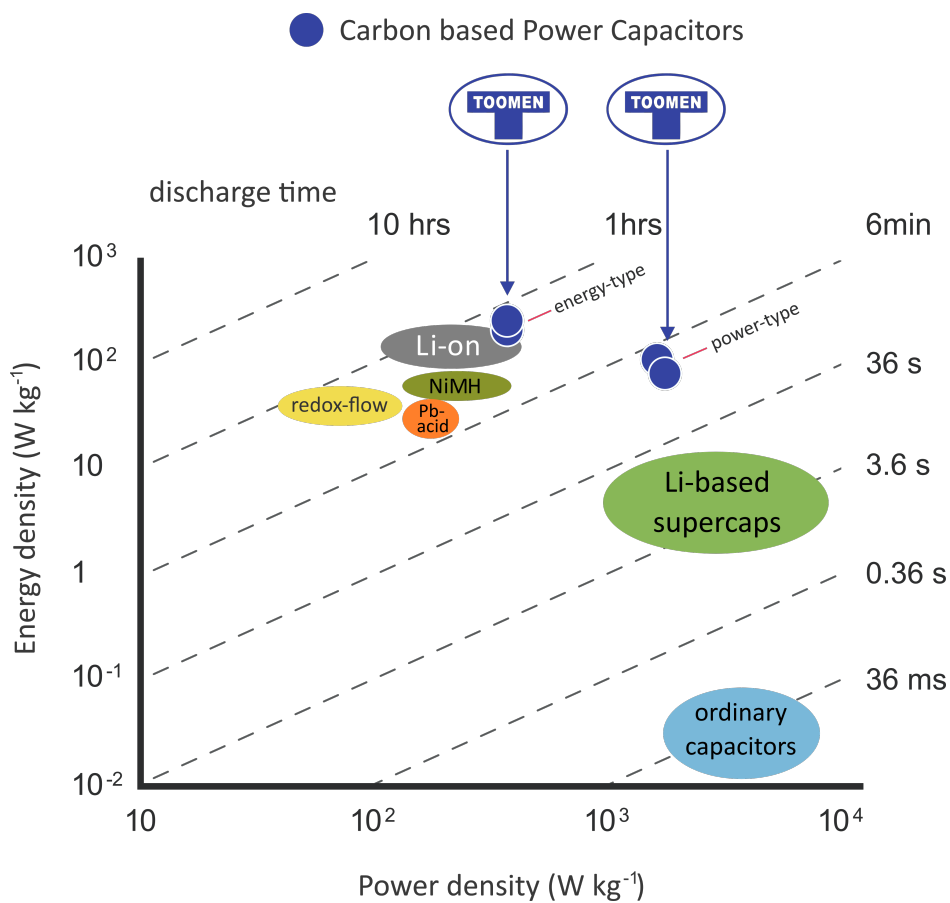
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Safe batteries are needed everywhere.

High Power and Energy Density

The Carbon based Power Capacitors are a new technology for storing electricity. They offer an energy density that is similar to Lithium-ion battery cells (from 80 to 230 Wh/kg) but with a power density as found in supercapacitors (a few 100 to 1000's W/kg).



Systems equipped with these Power Capacitors will be able to store as much energy as those with lithium-ion based cells, and can deliver it up to 20 times faster. This implies that they can be charged up to 20x faster than traditional lithium based batteries.