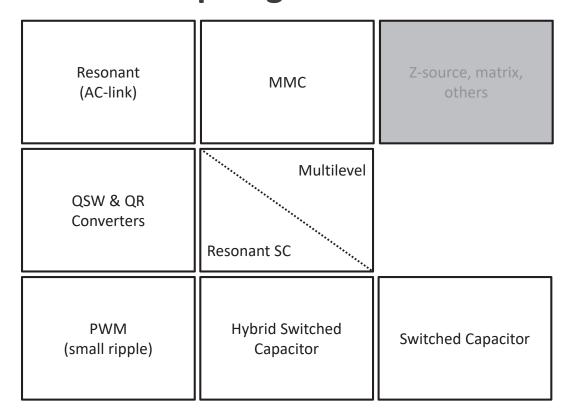
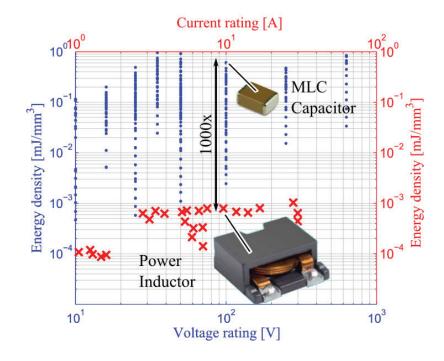
Converter Topologies

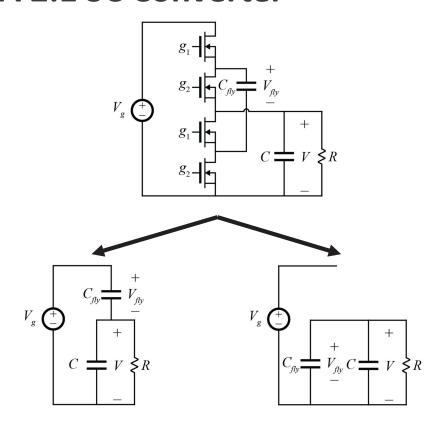




Switched Capacitor Converters



A 2:1 SC Converter





SC Converters

- Fixed conversion ratio
 - No regulation (except linear)
- Not lossless, even with ideal elements
- Can be very small, fully integrated
- Resonant versions can reduce loss
- Hybrid versions can allow regulation

Capacitor Charging: Voltage Source





Capacitor Charging: Current Source





Capacitor Charging: Resonant



