



Example of a 5-level SMC

Typical application and trends

- Medium voltage drive up to 13.8kVAC
- Medium voltage Solar up to 1500VDC

Conversion stage

- DC/DC mono and bi-directional
- DC/AC mono and bi-directional

Number of levels

Typical: 5
Max: 9

Intellectual Property

Initial Patent FR2809548

Advantages

- Modular
- Efficient use of powerswitches
- High power
- High number of levels
- High voltage

Drawbacks

- Need flying capacitors

Notes

It needs much less capacitors as in an equivalent flying capacitor