



Example of a 3-level T-type

Typical application and trends

- Medium voltage drive up to 3.3kVAC
- UPS up to 690VAC
- Solar up to 900VDC
- Electric Vehicle

Conversion stage

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

Advantages

- Efficient use of powerswitches

Number of levels

Typical: 3
Max: 3

Drawbacks

- Only 3 levels

Intellectual Property

Initial patent expired

Notes

Outer switches block the full voltage but switch only half the voltage. Thus, they can be composed of a direct series connection of switches with a proper command to handle a voltage level as high as a NPC.