Multilevel highspeed inverter
Control of motors and generators up to 180,000 rpm
High speed kept under control
Speed safely under control – lower system costs

Thanks to drivetek’s multilevel technology, motor, and generator speeds up to 180,000 rpm can be safely kept under control. The control technique and high PWM frequencies reached result in considerably lower rotor losses in the electrical machine, thus leading to a significant reduction in system costs. MLI was developed for fuel-cell air compressors and electric turbochargers.

### MLI 30
**Key features**
- DC supply voltage up to 800 V<sub>DC</sub>
- Nominal phase current up to 30 A<sub>RMS</sub>
- Stator frequency up to 3,000 Hz
- PWM switching frequency up to 50kHz
- CAN interface
- Field-proven sensorless speed and torque control
- Liquid-cooled, inlet temperature <70°C (under full load conditions)
- IP67 enclosure

### MLI 55
- DC supply voltage up to 800 V<sub>DC</sub>
- Nominal phase current up to 55 A<sub>RMS</sub>
- Stator frequency up to 2,500 Hz
- PWM switching frequency up to 40kHz
- CAN interface
- Field-proven sensorless speed and torque control
- Liquid-cooled, inlet temperature < 70°C (under full load conditions)
- IP67 enclosure

### MLI 110
- DC supply voltage up to 800 V<sub>DC</sub>
- Nominal phase current up to 110 A<sub>RMS</sub>
- Stator frequency up to 2,500 Hz
- PWM switching frequency up to 35kHz
- CAN interface
- Field-proven sensorless speed and torque control
- Liquid-cooled, inlet temperature < 60°C (under full load conditions)
- IP67 enclosure