Bosch offers power electronics for on-demand control of the electric powertrain in passenger cars and light commercial vehicles.

The power electronics controls the electric motor and provides the connection to the high-voltage battery.

Power electronics units from Bosch make the electric powertrain run more efficiently, resulting in extended electric driving range.

In combination with the electric motor and transmission, they enable the first generation of eAxles used in vehicle volume production to achieve a system efficiency of up to 93%.

The power electronics generation 3evo is available in two different variants:

- 3evo inverter for the integration in eAxles
- Stand-alone solution with integrated high-voltage DC/DC converter

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20% less losses due to advanced power module technology

high reliability

high resistance for thermal cycling