
Audi A2 e-tron - Drive technology

The upgraded drive system is up to 10 percent more efficient

The electric motor in the A2 e-tron is a permanently excited synchronous motor engineered specifically for efficiency and driving comfort. The drive system delivers efficient performance exactly where customers expect it: in everyday traffic. Three key advancements make the difference:

-
- Power electronics: silicon carbide semiconductors replace the previous silicon technology and significantly reduce switching losses — especially under partial load. Variable switching frequency cuts losses by up to 20 watts; alternative modulation techniques reduce switching losses by up to 33 percent compared with conventional methods.
 - Electric motor: thinner laminations (0.2 instead of 0.3 millimeters) reduce what are known as iron losses. The stator winding switches from a star to a delta configuration, shifting operation into more efficient motor speed ranges.
 - Transmission: a new low-friction oil noticeably reduces friction losses. At higher road speeds, the tall 10.2:1 gear ratio lowers the motor speed, which can reduce energy consumption.

08/2026