

DENSO

Environment

Hybrid Vehicle Components

Hybrid vehicles' superior performance through state-of-the-art technologies

With sophisticated control systems that combine the engine and motors, hybrid vehicles successfully reduce CO₂ emissions and yet deliver powerful acceleration.

To support complex hybrid vehicle systems DENSO provides state-of-the-art products including control technologies for the vehicle engine, one of the company's fields of expertise; traction inverters, key components for electric motor control technologies and energy regeneration, and battery monitoring units in the area of power electronics.

Traction inverters are critical to the control of electric motors. DENSO provides the world's top power density (output power per unit volume) inverters (as of July 2007) for the Toyota Lexus LS 600h, with a new cooling technology that limits the temperature rise of the built-in semiconductor power devices. This cooling technology is based on both radiator and electronics technologies, which have been developed through the in-house production of semiconductor devices.