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Auto Expo 2012

Advanced Products for Hybrid Vehicles

- Developing smaller, lighter and higher output products -

A hybrid vehicle with both an engine and an electric motor can improve fuel efficiency, reduce CO2 emissions, emit cleaner exhaust gas, and improve power performance. Due to growing concerns about environmental issues such as global warming and depletion of oil reserves, hybrid vehicles are likely to become increasingly popular.

DENSO's products and technologies for hybrid vehicles

Since Toyota released the Prius, the world's first hybrid vehicle, in 1997, DENSO has been developing and supplying various products which are used not for conventional gasoline-powered or diesel-powered vehicles but exclusively for hybrid vehicles. These products include power control units (PCU), battery-monitoring units, hybrid computers, DC-DC converters, and electric compressors.

DENSO holds advanced technologies including control technology for engines, motors, and batteries; semiconductor technology for handling high voltages and currents; and cooling technology for suppressing heat generation under high voltage. By combining these technologies, DENSO develops sophisticated, compact products for hybrid vehicles.

For example, as the functionality and performance of hybrid vehicles improve, PCUs need to be made smaller and lighter and yet produce higher output. DENSO has combined the cooling techniques it has developed for radiators with the electronics techniques acquired through independent development and production of semiconductor products, to successfully create unique cooling systems for PCUs offering the world's highest electric power density (output per unit area).

- more -

DENSO is also creating new products, including motor generators using the winding technique for alternators, battery chargers for electric vehicles, and smaller high-efficiency battery packs each containing a battery, a battery-monitoring unit, and a cooling fan.

As a comprehensive automotive component manufacturer, DENSO will continue to develop innovative technologies based on a wide range of technologies, produce compact yet higher performance products for hybrid vehicles, and contribute to the evolution of hybrid vehicles.

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