



With 130 kW peak power, the new Tier G electric motor by Transfluid utilizes permanent magnet technology and is targeted for on- and off-road vehicles and marine applications.

## A TOP TIER Solution

**New 130 kW electric motor for on-, off-road vehicles, marine applications**

**T**ransfluid has developed a new electric motor, the type Tier G, which is targeted for applications in on-road and off-road vehicles, as well as marine main propulsion and marine auxiliary propulsion.

The company explained that the name Tier G references exhaust emissions regulations in the USA (Tier) and Europe, also pointing out that though the regulations have targeted significant reductions in gaseous emissions, they are still far from an achievable “Green” target.

Transfluid said Tier G reaches a very high efficiency resulting from the combination of energy saving capability, higher battery operation time (when not connected to the grid as in industrial applications) and a longer range. The Tier G electric motor is also designed to be

vibration-free and emit very low noise. The new Tier G electric motor also has a compact envelope and with high power to weight ratio, Transfluid said. It is designed with a flexible torque profile that can adapt to the different needs of mobile machines and marine vessels.

The Tier G motor reaches 130 kW of peak power at 3000 r/min, utilizing permanent magnet technology, with 97% efficiency. The power supply comes from a 384 Vdc battery or 400 Vac grid.

The motor has a SAE 4-10 in. (SAE J617-620) output with SAE B two-bolt power take-off. The unit is liquid cooled (with glycol or water) and incorporates temperature and pressure switch gauges.

Transfluid said the Tier G electric motor is a retrofittable solution for zero-emissions drive. **NPP**

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