Maximize EV Motor Performance with Precision Detection of Partial Discharges

Empowering Electrical Asset Health

The Electric Vehicle (EV) motor industry is undergoing transformative changes. Key among these is the shift towards higher voltage systems, predominantly of 800V or more. However, with these advancements come challenges. The stress on motor insulation increases due to higher voltages, leading to a rise in partial discharge occurrences.

The Solution: Accurate Partial Discharge Detection

OFIL Systems UV camera solution, tailored for the EV motor industry, addresses this very concern. It is designed to:

- Detect and Visualize: With high sensitivity, it identifies even the subtlest PD with a remarkable sensitivity of 1 pC @ 12m. (as tested by Innogy SE-Eurotest Germany according to IEC 60270:2000).
- Reliable Standards: OFIL Systems' UVollé is compliant with IEEE 1434-2014 and IEEE 1799-2022, ensuring dependable results aligned with industry protocols.

Precise Results
See the exact location of the PD on the stator coils

Increased Efficiency, Reduced Costs
Repair faults on the spot and avoid components replacement

Employee Safety
Conduct inspections from a safe distance

Pinpointing partial discharge during surge and Hi-Pot tests

Locating partial discharge occurrences in motors is crucial for enhancing the quality and longevity of motors. Incorporating a UV camera into the manufacturing process ensures not only the mitigation of potential damages but also valuable insights to amplify the motor infrastructure's safety and performance.

As the EV industry continues to evolve, it's imperative for manufacturers to stay ahead with tools that ensure quality, safety, and reliability.