

## **BorgWarner liefert Siliziumkarbid (SiC)-Inverter für Elektrofahrzeuge eines deutschen OEM**

- *Neuer 800V-SiC-Inverter für Elektrofahrzeuge eines deutschen OEMs*
- *Verbesserter Wirkungsgrad und optimiertes Packaging bieten konstruktive Vorteile*
- *Verbraucher profitieren von optimierter Reichweite und Leistung*

Auburn Hills, Michigan, 3. November 2021 – BorgWarner wird einen neuen Hochvolt-SiC-Inverter für die nächste Generation Elektrofahrzeuge eines großen deutschen Automobilherstellers liefern. Mit dem 800V-SiC-Inverter von BorgWarner und seinen proprietären Leistungsschaltern steht ein kompakteres und effizienteres Leistungsmodul zur Verfügung, das zu einer höheren Reichweite von Elektrofahrzeugen und verbesserter Fahrleistung beiträgt.

„Wir freuen uns, einen weiteren Auftrag für einen SiC-Inverter erhalten zu haben und sind stolz darauf, damit die nächste Phase unserer langjährigen Zusammenarbeit mit diesem Hersteller einzuläuten“, sagte Dr. Stefan Demmerle, Präsident und General Manager, BorgWarner PowerDrive Systems. „Unser SiC-Inverter mit seinem hochmodernen Leistungsmodul kann für Automobilhersteller ein Game Changer sein, da die neue Technologie eine höhere Leistungsdichte, hohe Performance und Zuverlässigkeit bietet.“

Der SiC-Inverter nutzt einen skalierbaren Leistungsschalter für 800V-Systeme und kann so für eine Vielzahl von Kundenanwendungen mit unterschiedlichen Leistungsstufen optimiert werden. Sein Design basiert auf der bewährten Kühltechnologie von BorgWarner, die eine reduzierte Halbleiterfläche und damit verbesserte Kosteneffizienz ermöglicht. Darüber hinaus bietet das System dank seines kompakten, patentierten Leistungsschalters, der beidseitig gekühlt wird und keine Drahtbonds benötigt, eine höhere Lebensdauer und verbessertes Packaging. Die Silizium IGBTs in dem modularen Leistungsschalter wurden durch SiC-Transistoren ersetzt. Da Siliziumkarbid geringere Schalt- und Durchlassverluste aufweist, hat der neue SiC-Inverter im

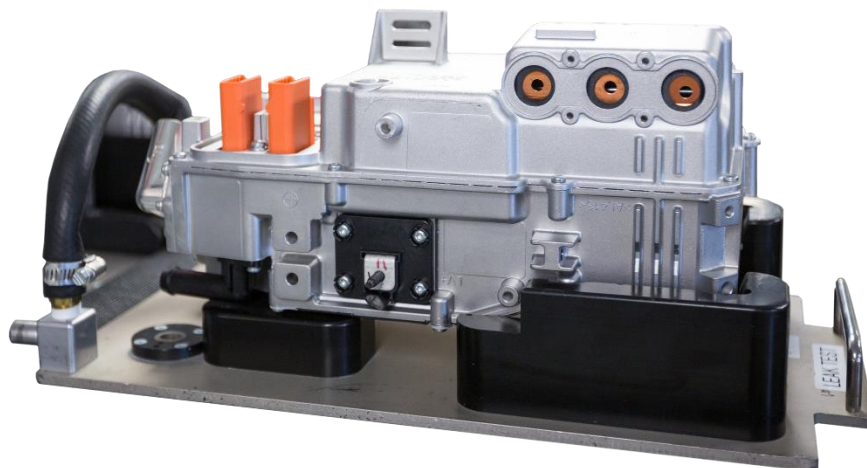
Vergleich zu siliziumbasierten Invertern je nach Fahrzyklus eine um 40 bis 70 % geringere Verlustleistung.

Mit seiner höheren Leistungsdichte und dem verbesserten Wirkungsgrad ermöglicht BorgWarners Inverter OEMs die Entwicklung von 800V-Hochleistungsantriebssystemen, die sich durch gesteigerte Fahrleistungen, längere batterieelektrische Reichweiten und kürzere Ladezeiten auszeichnen. Diese Verbesserungen können letztlich dazu beitragen, die Akzeptanz der Elektromobilität beim Verbraucher zu erhöhen.

Im Rahmen seiner Charging Forward Initiative beschleunigt BorgWarner seine Elektrifizierungsstrategie und hat angekündigt, die Umsätze mit Produkten für Elektrofahrzeuge bis 2030 auf rund 45 % steigern zu wollen. Gleichzeitig soll bis 2035 CO<sub>2</sub>-Neutralität erreicht werden.

## Über BorgWarner

BorgWarner Inc. (NYSE: BWA) ist ein globaler Produktführer, der innovative und nachhaltige Mobilitätslösungen für den Automobilmarkt liefert. Aufgrund seiner umfangreichen Erstausrüster-Expertise bietet BorgWarner marktführende Produkt- und Service-Lösungen auch für den globalen Aftermarket. Das Unternehmen unterhält Fertigungsstätten und technische Einrichtungen an 96 Standorten in 22 Ländern und beschäftigt rund 50.000 Mitarbeiter weltweit. Weitere Informationen unter [borgwarner.com](https://www.borgwarner.com).



Mit seinem SiC-Inverter unterstützt BorgWarner OEMs beim Bau von Elektrofahrzeugen, die hervorragende Leistung und eine höhere Reichweite bieten.

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BorgWarner Inc. (BorgWarner to Provide New Silicon Carbide Inverter for German OEM's Electric Vehicles\_DE) – 4

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