

BorgWarner sichert sich weiteres Dual-Inverter-Projekt mit großem chinesischem OEM

- *BorgWarner setzt strategische Zusammenarbeit mit diesem OEM im Bereich der New Energy Vehicles (NEV) fort*
- *Dual-Inverter zeichnet sich durch ein hochintegriertes strukturelles Design aus*

Auburn Hills, Michigan, 31. Juli 2025 – BorgWarner hat einen neuen Auftrag zur Lieferung von Dual-Invertern an einen bedeutenden chinesischen Automobilhersteller für dessen Hybridfahrzeuge erhalten. Damit wird die Partnerschaft fortgesetzt, die bereits 2021 mit einem Dual-Inverter-Projekt begann. Die Serienproduktion soll Ende 2025 starten.

„Wir freuen uns über ein weiteres Dual-Inverter-Projekt für diesen wichtigen Kunden. Dieser Meilenstein bedeutet eine neue Phase der Zusammenarbeit im Bereich der New Energy Vehicles“, sagte Dr. Stefan Demmerle, Vice President of BorgWarner Inc. and President and General Manager, PowerDrive Systems. „Im sich rasant entwickelnden NEV-Markt Chinas bleibt BorgWarner bestrebt, seine Kunden mit innovativen und hochwertigen Elektrifizierungslösungen zu unterstützen.“

Der Dual-Inverter von BorgWarner ermöglicht die synchrone Steuerung von zwei Motoren über einen einzigen Controller. Dies erhöht die Flexibilität bei der Integration und vereinfacht die Installation erheblich. Dank BorgWarners eigener Packaging-Technologie können Power Module flexibel konfiguriert werden – verschiedene Module werden in einem kompakten Gehäuse zusammengeführt. Das reduziert sowohl das Gewicht als auch die Kosten erheblich.

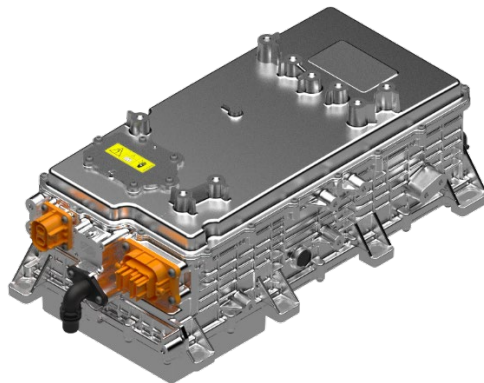
Die fortschrittliche Technologie des Dual-Inverters zeigt sich auch im Design des Power Moduls, bei dem die doppelseitige Kühlung den thermischen Widerstand im Vergleich zu einseitiger Kühlung um bis zu 50% reduziert. Zudem ermöglicht das Packaging von BorgWarner die Integration unterschiedlicher Halbleiterchips in Module gleicher Größe – das sorgt für Flexibilität und hilft dabei, die strengen Effizienzanforderungen des chinesischen CLTC-Fahrzyklus zu erfüllen. Die adaptive Regelung der Batteriespannung erweitert den Bereich, in

dem der Elektromotor konstant hohe Leistung und Effizienz liefert, erheblich, was wiederum die Gesamteffizienz des Systems steigert.

Die Dual-Inverter-Technologie von BorgWarner entwickelt sich kontinuierlich weiter. Dabei werden sowohl das Systemdesign als auch die Hardware laufend optimiert. Das Modell der dritten Generation verfügt über einen leistungsstarken Einzelchip, der gleichzeitig die DC-DC-Wandlung und die Steuerung beider Elektromotoren übernimmt. Je nach Kundenanforderung kann das System zudem mit Hochvolt-Hilfsschnittstellen ausgestattet werden. In der vierten Generation sind ein Boost-Wandler und zwei Inverter in einem System integriert. Zusätzlich kann ein optionales DC-DC-Modul ergänzt werden, wodurch sich die vielfältigen Anforderungen moderner Hybridfahrzeug-Plattformen flexibel abdecken lassen.

Über BorgWarner

BorgWarner bringt als globaler Produktführer seit mehr als 130 Jahren erfolgreich Mobilitätsinnovationen auf den Markt. Mit unserem Fokus auf Nachhaltigkeit tragen wir dazu bei, eine saubere, gesunde und sichere Zukunft zu schaffen.



BorgWarner erhält weiteren Auftrag für Dual-Inverter von großem chinesischem Automobilhersteller

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