



## **BorgWarner's Silicon Carbide Inverter Powers Two Performance Car Brands to Win in Range**

- *Inverter to help with two performance car brands*
- *Innovative 800V inverter utilizes leading "Viper" power module technology*
- *High power SiC application to improve system efficiency, charging time and range*

Auburn Hills, Michigan - May 31, 2022 - BorgWarner, a global leader in delivering innovative and sustainable mobility solutions for the vehicle market, is partnering with two performance car brands, to provide them with a new 800-volt silicon carbide (SiC) inverter. As one of the key components in a new energy power system, inverters not only convert the DC power stored in the battery pack into AC power, but they also convert the AC power recovered during the braking process back to battery. Currently, most electric vehicles are equipped with a 400-volt system. As all-electric vehicles are expected to provide extended range and address higher requirements for charging performance, a more efficient semiconductor material is needed to increase the power density of inverters and electric drive assemblies. With this in mind, BorgWarner took the lead in building upon advanced technology to enable the application of silicon carbide in electric vehicles, ultimately developing a dual-sided cooling SiC inverter with high power that can be applied to 800-volt systems.

"We are honored to earn the trust of the two performance car brands as their core supplier of electronic propulsion systems," said Dr. Stefan Demmerle, President and General Manager, BorgWarner PowerDrive Systems. "As a leader in this highly competitive market, BorgWarner continues to develop innovative game-changing technologies for electric vehicles; our 800V silicon carbide inverter solution is a great example."

This new SiC inverter is designed using BorgWarner's patented "Viper" SiC 800V power module, which resulted in the usage saving of Semi-Conductor and SiC Material. The dual-side cooling technology in the power module helped to reduce product weight by 40%, size by 30% and increase power density by 25% compare to the traditional Si based inverters, The SiC power switch application will improve the system efficiency with better performance at a lower cost for our customers.

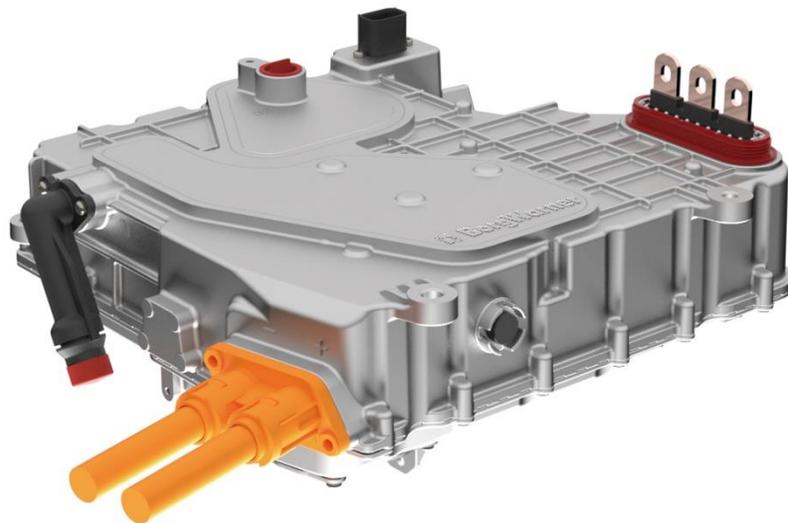
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Thanks to the unique Viper design, the solution is scalable to address changing demands, and adapts to both lower and higher voltage systems, making it easy to manage the multiple voltage ratings required by PHEVs and EVs.

The two electric SUVs equipped with BorgWarner's latest 800-volt silicon carbide inverter, are scheduled to start production in 2023 and 2024.

### About BorgWarner

For more than 130 years, BorgWarner has been a transformative global product leader bringing successful mobility innovation to market. Today, we're accelerating the world's transition to eMobility — to help build a cleaner, healthier, safer future for all.



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**Forward-Looking Statements:** This press release may contain forward-looking statements as contemplated by the 1995 Private Securities Litigation Reform Act that are based on management's current outlook, expectations, estimates and projections. Words such as "anticipates," "believes," "continues," "could," "designed," "effect," "estimates," "evaluates," "expects," "forecasts," "goal," "guidance," "initiative," "intends," "may," "outlook," "plans," "potential," "predicts," "project," "pursue," "seek," "should," "target," "when," "will," "would," and variations of such words and similar expressions are intended to identify such forward-looking statements. Further, all statements, other than statements of historical fact contained or incorporated by reference in this press release that we expect or anticipate will or may occur in the future regarding our financial position, business strategy and measures to implement that strategy, including changes to operations, competitive strengths, goals, expansion and growth of our business and operations, plans, references to future success and other such matters, are forward-looking statements. Accounting estimates, such as those described under the heading "Critical Accounting Policies and Estimates" in Item 7 of our most recently-filed Annual Report on Form 10-K ("Form 10-K"), are inherently forward-looking. All forward-looking statements are based on assumptions and analyses made by us in light of our experience and our perception of historical trends, current conditions and expected future developments, as well as other factors we believe are appropriate under the

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You should not place undue reliance on these forward-looking statements, which speak only as of the date of this press release. Forward-looking statements are subject to risks and uncertainties, many of which are difficult to predict and generally beyond our control, that could cause actual results to differ materially from those expressed, projected or implied in or by the forward-looking statements. These risks and uncertainties, among others, include: supply disruptions impacting us or our customers, such as the current shortage of semiconductor chips that has impacted original equipment manufacturer ("OEM") customers and their suppliers, including us; commodities availability and pricing; competitive challenges from existing and new competitors including OEM customers; the challenges associated with rapidly-changing technologies, particularly as relates to electric vehicles, and our ability to innovate in response; uncertainties regarding the extent and duration of impacts of matters associated with the COVID-19 pandemic, including additional production disruptions; the difficulty in forecasting demand for electric vehicles and our electric vehicles revenue growth; potential disruptions in the global economy caused by Russia's invasion of Ukraine; the ability to identify targets and consummate acquisitions on acceptable terms; failure to realize the expected benefits of acquisitions on a timely basis including our recent acquisitions of AKASOL AG and Santroll's light vehicle eMotor business and our 2020 acquisition of Delphi Technologies PLC; the ability to identify appropriate combustion portfolio businesses for disposition and consummate planned dispositions on acceptable terms; the failure to promptly and effectively integrate acquired businesses; the potential for unknown or inestimable liabilities relating to the acquired businesses; our dependence on automotive and truck production, both of which are highly cyclical and subject to disruptions; our reliance on major OEM customers; fluctuations in interest rates and foreign currency exchange rates; our dependence on information systems; the uncertainty of the global economic environment; the outcome of existing or any future legal proceedings, including litigation with respect to various claims; future changes in laws and regulations, including, by way of example, taxes and tariffs, in the countries in which we operate; impacts from any potential future acquisition or disposition transactions; and the other risks noted in reports that we file with the Securities and Exchange Commission, including Item 1A, "Risk Factors" in our most recently-filed Form 10-K and/or Quarterly Report on Form 10-Q. We do not undertake any obligation to update or announce publicly any updates to or revisions to any of the forward-looking statements in this press release to reflect any change in our expectations or any change in events, conditions, circumstances, or assumptions underlying the statements.

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