Press release

Bosch introduces third generation SiC chips for EV growth and local ecosystem enablement

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- The new generation of SiC chips deliver 20 percent higher performance
- More than 60 million SiC chips already delivered worldwide

Bengaluru, India – As India accelerates its transition to electric mobility, the focus is shifting from adoption to scale, efficiency, and affordability. Bosch is set to support this next phase with the introduction of its latest third-generation Silicon Carbide (SiC) semiconductors in India. Designed to improve the performance and efficiency of electric vehicles, the new chips will also contribute to the development of a stronger local mobility ecosystem.

Silicon carbide (SiC) semiconductors are central to improving the efficiency of electric vehicles. They control the flow of energy within the power electronics system - particularly in the inverter and ensure that energy from the battery to the electric motor is converted as efficiently as possible. With this new generation, Bosch is delivering approx. 20% higher performance, supporting India's rapidly growing EV market. For the end-user, this means longer driving ranges without larger batteries, improved battery utilization, and ultimately, a lower total cost of ownership.

"Our advanced SiC technology is designed to deliver the tangible benefits that Indian consumers demand - longer driving range, faster charging, and lower long-term costs." said Sandeep Nelamangala, Joint Managing Director, Bosch Limited, and President, Bosch Mobility India. "By making high-efficiency power electronics more accessible, we are helping to unlock the full potential of the EV market, making clean, efficient mobility a reality for everyone in India."

With over 60 million SiC chips already delivered worldwide, Bosch brings proven power semiconductor expertise to support the next phase of India's electrification journey. The company continues to invest billions of euros in expanding its global semiconductor capabilities, creating a strong foundation for innovation, supply resilience, and future growth. As India advances its ambitions in electric mobility, localization, and advanced manufacturing, Bosch aims to support customers and ecosystem partners by bringing together global semiconductor expertise and local ecosystem development.

Bosch Limited
Hosur Road, Adugodi
Bangalore - 560030

Somdatta Sen
E-mail: somdatta.sen@in.bosch.com
Phone : +91 9833596410

Corporate Communications/India
www.boschindia.com

With its third generation of SiC chips, Bosch is taking this technology to the next level. “Our ambition is clear: we want to be a globally leading manufacturer of SiC chips,” said Markus Heyn, member of the Bosch board of Management and chairman of the Bosch Mobility business sector. “With our next generation SiC chips, we are helping our customers put even more powerful and efficient electric vehicles onto the road.”

Bosch’s Gen 3 SiC technology enables more compact and efficient power electronics designs by reducing energy losses, improving thermal performance, and lowering system complexity and cooling requirements. Miniaturization is a key enabler for long-term cost efficiency, as it allows more chips to be produced per wafer. In this way, Bosch is contributing to making high-performance electronics more widely accessible.

These combined advantages make advanced power electronics relevant not only for premium vehicles, but also for mass-market EV segments where efficiency, affordability, and reliability are critical.

With this strategic introduction, Bosch is bringing advanced semiconductor innovation closer to the needs of India’s evolving mobility landscape and supporting the next phase of efficient, scalable, and sustainable electric mobility in the country.

Contact person for press inquiries:
Ms. Somdatta Sen
Phone: +91 9833596410
Somdatta.sen@in.bosch.com

About Bosch in India
In India, Bosch is a leading supplier of technology and services in the areas of Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. Additionally, Bosch has in India the largest development center outside Germany, for end-to-end engineering and technology solutions. The Bosch Group operates in India through 14 companies: Bosch Limited – the flagship company of the Bosch Group in India – Bosch Chassis Systems India Private Limited, Bosch Rexroth (India) Private Limited, Bosch Global Software Technologies, Bosch Automotive Electronics India Private Limited, BSH Home Appliances Private Limited, ETAS Automotive India Private Limited, Robert Bosch Automotive Steering Private Limited, Bosch Mobility Platform and Solutions India Private Limited, Newtech Filter India Private Limited, Precision Seals Manufacturing Ltd, Robert Bosch India Manufacturing and Technology Private Limited, MICO Trading Private Limited and Mivin Engg. Technologies Private Limited. Since commencing operations in 1951, we have steadily expanded our footprint across 17 manufacturing sites and 7 development and application centers, supporting both domestic and global markets. These facilities enable us to localize solutions, drive innovation, and respond with speed to dynamic customer and industry requirements drive innovation, and respond with speed to dynamic customer and industry requirements. In FY 2024–25, Bosch achieved consolidated sales of 2.7 billion euros and total net sales of 373,457 million INR (approximately euros 4.13 billion) in India. The company employed 38,655 associates as of March 31, 2025. Bosch Limited continues to anchor the Group’s India presence with a sharp focus on next-generation mobility, smart manufacturing, and digital transformation.

Additional information can be accessed at www.bosch.in

The Bosch Group is a leading global supplier of technology and services. It employs roughly 413,000 associates worldwide (as of December 31, 2025). The company generated sales of 91 billion euros in 2025. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. With its business activities, the company aims to use technology to help shape universal trends such as automation, digitalization, electrification, and artificial intelligence. In this context, Bosch’s broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in hardware, software, and services to offer customers cross-domain solutions from a single source. It also applies its expertise in

connectivity and artificial intelligence in order to develop and manufacture intelligent, user-friendly, and sustainable products. With technology that is "Invented for life," Bosch wants to help improve quality of life and conserve natural resources. The Bosch Group comprises Robert Bosch GmbH and its roughly 500 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. Bosch's innovative strength is key to the company's further development. Bosch employs some 82,000 associates in research and development.

The company was set up in Stuttgart in 1886 by Robert Bosch (1861-1942) as "Workshop for Precision Mechanics and Electrical Engineering." The special ownership structure of Robert Bosch GmbH guarantees the entrepreneurial freedom of the Bosch Group, making it possible for the company to plan over the long term and to undertake significant upfront investments in the safeguarding of its future. Ninety-four percent of the share capital of Robert Bosch GmbH is held by Robert Bosch Stiftung GmbH, a limited liability company with a charitable purpose. The remaining shares are held by Robert Bosch GmbH and by a company owned by the Bosch family. The majority of voting rights are held by Robert Bosch Industrietreuhand KG. It is entrusted with the task of safeguarding the company's long-term existence and in particular its financial independence – in line with the mission handed down in the will of the company's founder, Robert Bosch.

Additional information is available online at www.bosch-press.com, www.bosch.com.