

Press Release

Bochum, 8 January 2020

innoelectric starts series production of the 22kW On-Board Charger

System solution for AC and DC charging from a single source with maximum efficiency

innoelectric AG, developer and manufacturer of innovative components for electric mobility, has completed the development of its 22kW On-Board Charger with silicon carbide technology. Final preparations are currently underway before series delivery begins in the 2nd quarter of 2020.

The innoelectric on-board charger offers both AC and DC charging for electrified vehicles, commercial vehicles and machines. Thanks to integrated charging communication in accordance with all current international standards such as IEC 61851, DIN SPEC 70121 and ISO 15118, the innoelectric On-Board Charger can be used safely and flexibly worldwide, even in 50 Hz and 60 Hz network topologies. The on-board charger provides 22kW charging power in AC mode and, as a one-device solution, handles the entire charging management including the necessary communication with the charging infrastructure (EVSE) for AC and DC charging.

Two different voltage variants available

Depending on the voltage level of the battery and the application, the innoelectric On-Board Charger will be available in two different versions. The OBC42 is designed for a voltage level of 400 V (220 V - 510 V) with an output of up to 22 kW. The charging component achieves a minimum efficiency of over 94% between 2 kW and 22 kW. The maximum efficiency is over 96%.

In addition to the AC charging function with integrated PWM communication at up to 22 kW, the innoelectric On-Board Charger also supports the DC charging process with international standard-compliant communication according to DIN SPEC 70121 and ISO 15118. A further variant will be the OBC82, which is designed for a voltage level of 800 V (400 V - 850 V) at a power of 22 kW.

The charging power can easily be increased by connecting several innoelectric On-Board Chargers in parallel.

State-of-the-art technology increases efficiency

The application fields of the innoelectric On-Board Charger are manifold. These include various special machines, passenger vehicles and commercial vehicles such as trucks and minibuses weighing 3.5 t or more. As part of the development of the innoelectric On-Board Charger, the Bochum-based company is working closely with STMicroelectronics, a leading international manufacturer of embedded components and in the field of silicon carbide technology, in the field of silicon carbide technology.

Tim Karcher, CEO of innoelectric AG, on the start of series production: "After investing a lot of time, expertise and work in the development of the innoelectric On-Board Charger, I am pleased that the start of series production now marks the start of deliveries to our customers. The number of current inquiries far exceeds our expectations and confirms that the high quality, the best possible efficiency and the sustainability of our product are important criteria for our customers. In addition, the product is not a compromise, but a solid solution for the commercial vehicle and machine sector thanks to its high efficiency and performance. In addition, we are proud that our customers appreciate the complete loading solution from us, especially the easy and quick integration".

Fields of application

- Passenger cars
- Commercial vehicles
- Construction & special machinery
- New mobility concepts (Urban Air Mobility)

Images

Product image innoelectric On-Board Charger

Efficiency of the innoelectric On-Board Charger

Buzzwords

on-board charger, series production, production start, charging component for electric vehicles, charging communication, AC charging, DC charging, 22kW charging power, silicon carbide, one-device solution, SOP, OBC, charging technology, series production start, innoelectric, STMicroelectronics

Infolinks

<https://innoelectric.ag/charging-and-power-systems/?lang=en>

<https://innoelectric.ag/on-board-charger-2-2/?lang=en>

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About innoelectric

innoelectric develops and produces components for electric mobility. Power electronics, charging communication and energy storage form the focal points of our portfolio. Founded in 2016, the company has been active in the market with the "innoelectric" brand since the beginning of 2018. innoelectric combines the dynamism of a young company with the competence of an experienced player in electric mobility. In addition to innovative products with an international orientation, innoelectric's social responsibility towards its employees is also convincing. The regional proximity to colleges and universities as well as the location at the CampusQuartier Bochum enable the long-term development and retention of employees, even during their studies.