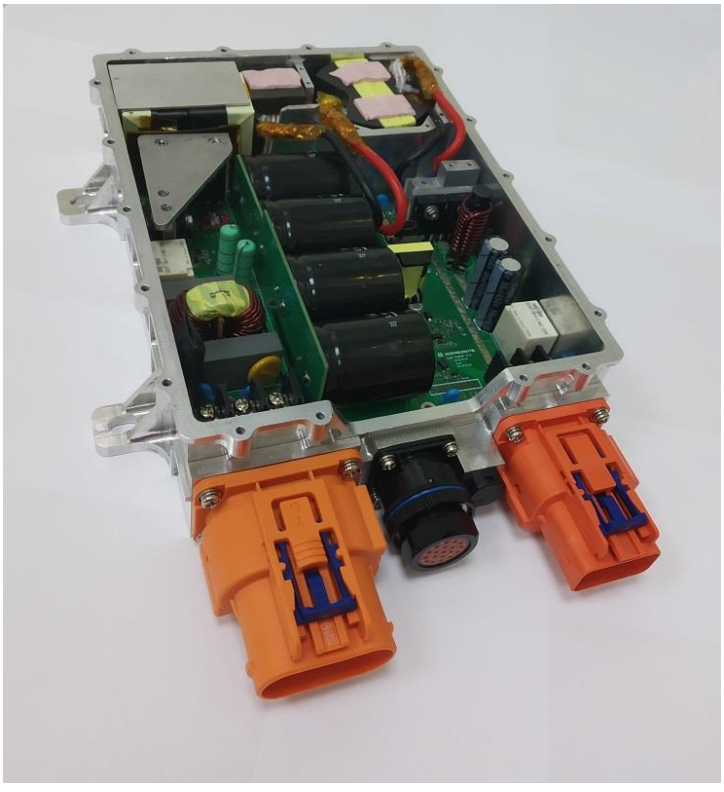
Nes Ziona, Israel
19 March 2019

VisIC's smallest 6.7kW On-Board-Charger Reference Design

Best Power Density of 3kW/L and lightweight of 4.5kg

VisIC Technologies, Ltd is a GaN power semiconductor device leader in the fast-developing markets of Automotive, Data Centers and Industrial, today announced the availability of its On-Board-Charger (OBC) reference design for the fast-growing Electrical Vehicle (EV) market. The 6.7kW OBC features a size and weight of only 2.3L and 4.5kg respectively, providing close to 3kW/L power density and proving the disruptive capability of GaN switches. This is 3 x better power density compared to commercially available products today. With the efficiency above 96% across a wide load range, it helps automotive manufacturers to reduce power losses and enables faster charging for electric car owners.



The 6.7kW OBC using VisIC GaN power devices targets plug-in hybrid vehicles/electric vehicles (PHEV/EV) applications. With a universal 110-220V/16-32A AC input and 200-430V DC output for charging the automotive battery by controlling voltage and current flow to the battery. The charger is designed to provide the interfaces to charging standards on the input power side and thus adapts to charging infrastructure.

The advanced OBC design which uses VisIC's GaN technology, designed for Automotive qualification requirements AEC-Q101, demonstrates reduction in power losses, size and weight. The overall advantages include simplifying the cooling systems, reducing the charging time and reducing the size and cost of the EV.
"We are happy to release this OBC reference-design to help our customers to accelerate the design cycle and bring the best-in-class xEV chargers using VisIC's GaN technology to the market in a fast and efficient way.", says Ran Soffer, VisIC's SVP Sales & Marketing. "This reference design proves the benefits and improvements VisIC's GaN technology can bring to the xEV users. With VisIC's GaN technology, electrical cars will be more efficient, lighter in weight and more affordable."

To meet future worldwide climate goals, the use of VisIC's GaN technology is needed for new cutting-edge automotive power systems to stimulate more efficient and green transportation.
Meet us at the follow exhibitions:
APEC 2019 Booth #775. 19-21 March, Anaheim, USA.
Electronica China: Booth #4800, Hall E4. 20-21 March, Shanghai, China.
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About VisIC Technologies:
Based in Israel, VisIC Technologies, Ltd. was established by experts in Gallium Nitride (GaN) technology to develop and market advanced GaN-based power conversion products. VisIC has successfully developed, and is bringing to market, high power GaN-based transistors and modules. (GaN is expected to replace most of the Silicon-based (Si) products currently used in power conversion systems). Its high efficiency and reliable products designed for high power conversion for hybrid and electric vehicles, Data-centers, renewable energy and industrial motors. VisIC has been granted keystone patents for GaN technology and has additional patents pending.
For more information about VisIC Technologies please visit www.visic-tech.com and LinkedIn