SolarTech Power Solutions

11kw bidirectional energy storage

Overview

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This document introduces a 11kW high-efficiency high-density bidirectional three-/single-phase AC-DC power converter, i.e., REF_11KW_PFC_SIC_QD offered by Infineon. The design can be used in multiple applications, including but not limited to EV charging, onboard charger, and energy storage.

BSG1K037G is the bidirectional ACDC power module, specially designed for 11kW 3 phase V2G EV charger. Building block design, independent IP65 protection and thermal management are very conveniently integrated to the customer V2G charger. With the high frequency MOSFET/SiC switch technology, it can.

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The 11kW on board charger integrates a bidirectional OBC and multifunctional DCDC converter into a compact unit, reducing system complexity and auxiliary components. Covering a power range from 3.3kW to 11kW and featuring intelligent CAN communication, it adapts seamlessly to diverse EV charging.

Rated at 11kW, the TDK-Lambda EZA11K-320240 is 1U high and operates from a 240 – 400Vdc source from a high voltage grid and provide 150 – 300Vdc for charging lithium ion batteries. When grid power is not available,

the converter will seamlessly transition to drawing stored energy from the batteries.

Another requirement that is becoming more prevalent for inverter power stages is the need for bidirectional power transfer. This is important in storage ready inverters where there can be a need for the power from the grid to be stored in local power storage like a battery. The power conversion.

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