

3kw bidirectional inverter





Overview

What is eval_3k3w_bidi_psfb?

But the bi-directional DC-DC phase-shift full-bridge board from Infineon (EVAL_3K3W_BIDI_PSFb) has also been used for both the PFC and inverter test. Digital control enables the utilization of the inherent bi-directional power flow capability of the bridgeless totem-pole topology of EVAL_3k3W_TP_PFC_SIC.

Does eval_3k3w_tp_pfc_sic provide reverse power flow?

In addition, the EVAL_3K3W_TP_PFC_SIC board provides reverse power flow (inverter operation for grid-connected applications) due to the inherent bi-directional power flow capability of the totem-pole topology. The totem-pole topology in PFC applications with CCM operation is feasible by using wide band-gap semiconductors .

How does a DC-DC converter affect inverter operation?

In the case of inverter operation, the dynamic load and power line disturbance behavior has been adapted by introducing soft transitions. The interaction with the DC-DC converter and the influence of AC variations in inverter operation is also discussed in the application note.

What is eval_3k3w_tp_pfc_sic?

The EVAL_3K3W_TP_PFC_SIC board has been tested using programmable AC source and electronic load to demonstrate the power line disturbance behavior or dynamic load conditions in PFC operation. But the bi-directional DC-DC phase-shift full-bridge board from Infineon (EVAL_3K3W_BIDI_PSFb) has also been used for both the PFC and inverter test.



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