

ContainerPower Energy Solutions

100kw inverter design



Overview

What is a 100kW inverter?

The University of Texas at Austin and VisIC Technologies cooperated on the 100kW inverter reference design that can be used as a base for Inverter designs for EV, Industrial, PV, and other applications. WBG power technology is fast becoming the technology of choice to replace Silicon power technology in EV Motor Drive to achieve better efficiency.

What is the best 100kW inverter for EV?

Based on VisIC's unique D 3 GaN technology, this 100kW inverter reference design can be adapted to work both under 800V and 900V power-bus. The VisIC GaN devices have highly thermal efficient SMD packaging, high threshold voltage, fast switching and easy paralleling for most cost-effective, highly efficient, and reliable inverter solution for EV.

Can a 100kW inverter work under 800V power-bus?

The new 100kW inverter reference design from VisIC proves that GaN technology can also be used in the 800V power-bus applications, producing the most cost-effective solution for both 400V and 800V EV power-bus. Based on VisIC's unique D 3 GaN technology, this 100kW inverter reference design can be adapted to work both under 800V and 900V power-bus.

How much does a 200KW inverter cost?

of 200kW inverter is about\$10k. BRUSA systems are for OEMs they will keep small guys away by artificially higher pricing - standard practice in industry. for 400kW peak. Should get this hardware by the end of the year for people. Have fun with your projects, visit metric mind toward the end of the year for better systems.

How many inverters can a 3 phase hybrid inverter support?

Supporting parallel operation of up to 4 inverters, it can be expanded to an

impressive 400kW capacity, making it ideal for high-power applications. The 100kW 3-Phase Industrial Hybrid Inverter is a powerful and scalable solution designed to meet the demands of large industrial energy systems.

Why is VISIC GaN a good choice for EV inverter?

The VisIC GaN devices have highly thermal efficient SMD packaging, high threshold voltage, fast switching and easy paralleling for most cost effective, highly efficient, and reliable inverter solution for EV. The estimated peak efficiency can reach 99.3% with 40kHz switching frequency, due to the low switching losses of D 3 GaN devices.

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