

SolarTech Power Solutions

Heric type single-phase inverter topology

LiFePO₄ Battery, safety

Wide temperature: -20~55°C

Modular design, easy to expand

Wall-Mounted&Floor-Mounted

Intelligent BMS

Cycle Life: ≥ 6000

Warranty: 10 years



Overview

This document describes a highly efficient reliable inverter concept (HERIC) reference design REF-6KWHERIC and its main features, key data, pin assignments, mechanical dimensions, and electrical interfaces.

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reliable Inverter Concept (HERIC). Inverters are used to convert DC voltage to AC, HERIC inverters are modifications of full bridge inverters with 2 additional IGBTs on the output side. This paper will discuss about the inverter design called single phase HERIC SPWM sinusoidal pulse width.

This document describes a highly efficient reliable inverter concept (HERIC) reference design REF-6KWHERIC and its main features, key data, pin assignments, mechanical dimensions, and electrical interfaces. This power conversion reference design is modular and the hardware can be reused for various.

Abstract— Transformerless inverters are widely used in grid-tied Photovoltaic (PV) generation systems, due to the benefits of achieving high efficiency and low cost. Various transformerless inverter topologies have been proposed to meet the safety requirement of leakage currents, such as specified.

Abstract: Single-phase transformerless inverters are widely employed in grid-connected photovoltaic systems, because they are light, inexpensive and most importantly, have high conversion efficiencies. The highly efficient and reliable inverter concept (HERIC) is a well-known topology for.

HERIC (Highly Efficient and Reliable Inverter Concept) is a well-known topology for photovoltaic systems. This is a configuration in which two anti-parallel auxiliary switches are added to the conventional H-bridge inverter. These switches can pass freewheel current through the shortest route.

ich have reduced weight, size and cost compared to the conventional inverter

types. However, the substitution comes with new challenges of leakage current through the parasitic capacitance to the ground, which in turn affects its efficiency. Thus, many researches are ongoing to overcome these.

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