EQACC SOLAR

Dual voltage inverter three wheel

Overview

What is a three-phase dual inverter?

Advanced double-sided cold plate and highly-integrated DC Link capacitor reduce component count and increase power density. The three-phase dual inverter has greater than 4x the power density of comparable Si based designs and greater than 98% efficiency. This design features: Specifications.

Can a dual inverter drive a single six-phase motor?

The two independent inverter three-phase outputs could optionally be used to drive a single six-phase motor or paralleled for a single higher power three-phase motor drive. The dual inverter control logic is supplied by a 12V supply, while the 3-phase bridge is connected to the 48V battery by means of cable lugs.

What is a dual inverter?

Optionally, the dual inverter is configurable for permanent magnet synchronous motors (PMSM), brushless DC (BLDC) or induction motors. The battery pack is at 48V with a separate management system (BMS) for safe and eficient discharge and recharge control as well as for monitoring cell health and temperature.

What is a two-wheeler traction inverter system?

The primary goal of a two-wheeler traction inverter system is to drive the traction motor which is typically a permanent magnet synchronous motor (PMSM) type or a brushless DC type of motor. Several important design considerations determine the overall functionality and performance of the traction system.

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A dual doubly-fed generator system supplied ...

The space vector pulse width modulation (SVPWM) technique was used for the given configuration of the dual generator ...

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XM3 Three-Phase Dual Inverter Reference Design

The XM3 three-phase dual inverter also features a laminated bussing integrated with the dc-link capacitor which reduces total power loop inductance and a high-performance ...

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CRD600DA12E-XM3 600 kW Dual Three-Phase Inverter

600 kW high performance dual three-phase inverter; optimized for Wolfspeed's Silicon Carbide (SiC); low inductance; conduction optimized XM3 Power Modules.

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600kW Three-phase Dual

Inverter Reference Design ...

The 600kW three-phase inverter demonstrates system-level power density and eficiency obtained by using six of Wolfspeed's XM3 half-bridge power modules. With half the ...

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Dual-input configuration of three-phase split-source inverter ...

This paper presents a dual-input configuration for the three-phase split-source inverter (SSI) to be used with photovoltaic (PV) systems, it is denote...

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Two

Description This 5-kW, 48-V, traction inverter reference design aims to provide a foundation for engineers to develop high-performance, high-efficiency traction inverter designs ...

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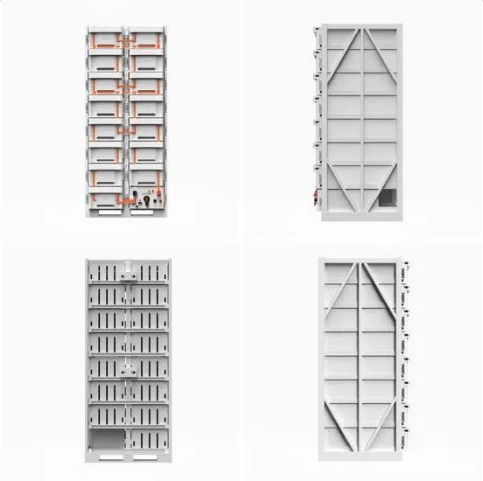

A dual doubly-fed generator system supplied by a five-phase voltage

The space vector pulse width modulation (SVPWM) technique was used for the

given configuration of the dual generator system to ensure a dual three-phase output from a ...

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CRD600DA12E-XM3 600 kW Dual Three ...

600 kW high performance dual three-phase inverter; optimized for Wolfspeed's Silicon Carbide (SiC); low inductance; conduction ...

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Dual Three-Phase Sparse Inverter: Topology Analysis, PWM ...

Dual three-phase drives offer significant advantages for medium and high-power applications, including reduced current ratings for power switches, lower torque ripple, and ...

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(PDF) Dual Three-Phase Sparse Inverter: Topology Analysis, ...

This paper introduces a dual three-phase sparse inverter designed to address

these limitations. The proposed inverter utilizes only 16 power switches, a substantial ...

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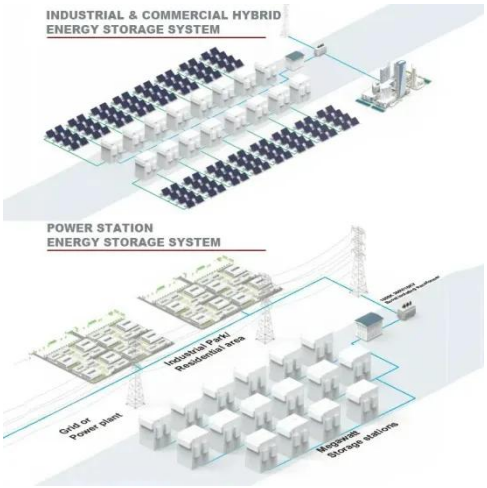

2020_04_29_Infineon_Dual_Inverter_Whitepaper dd

Overtemperature protection for the motors and drive inverter are included along with failsafe mechanisms for the control electronics whether from internal faults or from ...

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Integrated Three-Level Dual-Phase Inverter

Its three-level attribute was based on the F-type inverter topological concept, and its dual-output feature was based on the common representation of the inverter-leg concept. The ...

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