

SolarTech Power Solutions

Modular DC inverter multi-group frequency conversion system



Overview

What is a DC/DC Modular Multilevel Converter?

DC/DC converters are one of the most important components for HVDC power transmission, and DC/DC modular multilevel converters (MMCs) are the backbone of HVDC grid interconnections. The DC/DC MMC is a highly regarded converter architecture for medium/high-voltage DC grid interconnection.

What is Modular Multilevel Converter (MMC)?

Abstract: The modular multilevel converter (MMC) is currently one of the power converter topologies which has attracted more research and development worldwide.

What is a DC/DC Multilevel Converter (MMC)?

It can also link asynchronous alternative current (AC) networks while balancing the grid. DC/DC converters are one of the most important components for HVDC power transmission, and DC/DC modular multilevel converters (MMCs) are the backbone of HVDC grid interconnections.

What is Modular Multilevel series parallel converter (mmspc)?

The flexible interconnection of the individual battery modules into a Modular Multilevel Series Parallel Converter (MMSPC) as a distributed real-time system enables dynamic modeling of the voltage curve, so that the sinusoidal three-phase AC voltage for the motor can be generated directly from the DC voltage from the battery modules.

What modulation approaches are used in DC/DC MMC?

To regulate the rising fields of power DC/DC MMC, many modulation approaches have been explored and developed. Pulse-width modulation (PWM) and phase-shift modulation (PSM) are the two common switching control approaches for switch-mode converters .

What are nonisolated DC/DC converters?

Nonisolated DC/DC converters, such as buck, boost, and buck-boost converters, are basic architectures in DC/DC converters. Hereby, several studies have been published in the literature to provide problem diagnostic and tracing methods for these converters .

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