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Title: EVTOL High Voltage Inverter

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Index Terms--eVTOL, airborne, hybrid power supply, fuel cell, battery, dc-dc converter, non-isolated, buck-boost, gravi-metric power density, ultra-lightweight.

High-power, high-voltage, high-bandwidth interconnect technologies for eVTOL, Advanced Air Mobility (AAM) and Urban Air Mobility (UAM).

In this paper, a systematic optimization study is performed considering SiC-based inverter for the drivetrain power converter. Optimal value of dc bus voltage is determined ...

A connectivity partner with broad experience can also offer innovative solutions that help eVTOL and UAM projects soar over high-voltage, high-current hurdles. This article was ...

Powerful electronic converters with an efficiency of 99 percent are needed between the battery and the engine in order to make short-haul flights efficient and ...

Selection of an optimal DC bus voltage beyond the current state-of-the-art by considering the interaction between DC bus voltage, power cable weight, and drive inverter efficiency.

In one embodiment, an electrical propulsion system includes an electrical motor configured to drive one or more propellers of the aircraft, a capacitor configured to stabilize a direct current ...

Benefiting from the switching frequency of 1.x MHz, the open-loop working mode, and characteristics such as the output impedance at the milliohm level, Vicor BCM products offer ...

The Glenair MotorHead Advanced Air Mobility connector is a low-profile, economical high-voltage solution for eVTOL advanced air mobility electric motor, inverter, and production break ...

A connectivity partner with broad experience can also offer innovative solutions that help eVTOL and UAM projects soar over high ...

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From batteries to rotors and power conversion to flight control and navigation electronics -- reliability of redundant components and systems for Electric Vertical Take-off and Land aircraft ...

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