

Dual Winding High Power Density Shielded Drum Core Power

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Dual Winding High Power Density Shielded Drum Core Power

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Automotive grade dual winding, high power density ...

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Design and Optimization of Dual-Winding Fault-Tolerant ...

Index Terms—Dual-winding motor, design and optimization, fault-tolerance, finite element analysis, short-circuit fault I INTRODUCTION ERMANENT magnet (PM) motor has been widely used in hybrid electric vehicles, aerospace and other fields because of the merits such ...

Design proposal for high-efficiency, high-power density ...

22 Transformer core selection for high efficiency, high power density operation For the high efficiency and high power density applications of power

converter it is known, that PQ or RM shape of transformer core is preferred This is due to compact shape and due to possibility for bobbin-less winding design

th Improved Design of a Dual Stator Winding Induction ...

power and control windings, and A_{SPc} is the conductors area of a slot in the power and control windings Total surface current density of the power and control windings should be equal to surface current density of equivalent 4-pole single-winding induction machine which can be calculated easily [9] 2) Core Losses Calculation

330W High Power Density AC/DC Solution - TI Training

330W High Power Density AC/DC Solution TIDA-010028: 330W bidirectional bridgeless PFC notebook adapter reference design Desheng Guo SEM - Industrial Systems - Power Delivery Sep 2019

A High Power Density Drivetrain-Integrated Electric ...

bridgeless-boost-based power factor correction (PFC) ac-dc stage, plus an H-bridge and a single winding to the composite boost converter, to achieve high-power on-board charging functionality without substantial additional weight A 66 kW prototype of the proposed charger has been designed and its PFC stage built and tested The PFC stage uses

IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Optimal ...

high total power density of the iron utilized for the stator and rotor core fabrication Since, total flux minimization permits higher flux levels for each of the winding sets Consequently, each winding set generates higher power level and the total power, which is the sum of the output powers of winding sets, increases [16] The air-gap flux

Design Optimization of High Frequency Transformer for Dual ...

shifted angle when maximizing the power conversion Additionally, at high switching frequency, high AC losses in the HFT windings are inevitable due to the skin- and proximity-effects [5], [6], and [7] The leakage inductance and the magnitude of the AC loss are ...

Computer Aided Optimal Design of High Power Density EMI ...

Computer Aided Optimal Design of High Power Density EMI Filters Abstract —Power density of power converter systems is becoming an increasing crucial design constraint for a wide range of technical applications Size reduction of EMI filter in power converters is an important challenge due to its significant impact on the overall converter volume and weight In order to take on this issue, a

08 Design and Analysis of a New Dual-Stator Permanent ...

By virtue of their high torque density, double-stator permanent magnet (PM) electric machines can be effectively used for low-speed, direct-drive applications In this paper, a new magnetic gear based design of dual-stator PM machine is presented The key is to use the

Power Density Evaluation of a Novel Double-Stator Magnetic ...

is power density evaluation of a double-stator magnetic geared PM generator, which has a novel structure that comprises three PM rotors and dual iron ring pole pieces integrated with two stators in a magnetically coupled configuration

Topology Key to Power Density Efficiency and density ...

designfeature 16 Power Electronics Technology | February 2011 www.powerselectronics.com Efficiency and density (Watts/Volume) have long been the metrics used to compare the performance of isolated DC-DC power converters When designing an isolated dc-dc power converter, the first and most critical choice is selection of the topology

Electric Drive System of Dual-Winding Fault-Tolerant ...

on alternate teeth, which incorporates the merits of high power density and high efficiency of the PM motor and high fault tolerance of the dual-winding motor To achieve the fault-tolerant performance of the electric drive system, the redundant fault-tolerant control strategy based on the failure diagnosis and redundancy communication is proposed

Analysis of a Dual-Winding Fault-Tolerant Permanent Magnet ...

Hence, it incorporates the merits of high power density and high efficiency of permanent magnet (PM) machine and high fault-tolerance of dual-winding machine To achieve the fault-

High Frequency AC Inductor Analysis and Design for Dual ...

isolation with high power density and high power efficiency, in particular, for high power applications such as solid-state transformers, electric tractions and battery interfacing circuits [7]-[9] With regard to magnetic components of DAB converters, as a DAB topology illustrated in Fig 1, only one high frequency

Design Optimization of a High-Power Transformer for Three ...

High-power DC-DC converter will be one of the essential technologies for the future DC grids Especially, a three-phase dual-active bridge DC-DC (3DAB) Converter is highly suitable for high-power DC systems Key component within this converter is the high power transformer operated at a medium frequency (MF) range The design and optimization

Dual rotor single- stator axial air gap PMSM motor ...

high winding factors, to reduce volume, weight and cost in either planetary-gear parallel HEV or in series HEV 2 Constructive elements In figure 1 a 2D drawing of the machine in front view and a longitudinal section are shown The single stator dual PM rotors axial synchronous machine having in centre the stator assembly (1)

Application Manual - New Eagle

“High Voltage Hairpin” (HVH) winding methodology that allows high currents while operating at voltages up to 700 V (plus) The HVH design is extremely robust, providing excellent electrical and magnetic performance while remaining lightweight and compact, yielding excellent power density and thermal performance The stator is composed of a