Dual Winding High Power Density Shielded Drum Core Power

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Dual Winding High Power Density

Dual winding, high power density, shielded drum core power ...
Dual winding, high power density, shielded drum core power inductors Pb HALOGENHF FREE • Desktop and servers • DVD and media players • Portable and handheld devices • LCD panels • As a transformer: SEPIC, flyback • As an inductor: buck, boost, coupled inductor • DC-DC Converters • VRM inductor for CPU and DDR power supplies
Automotive grade dual winding, high power density ...
Technical Data 11017 Effective November 2019 DRAQ75 Automotive grade dual winding, high power density, shielded drum core power inductors Product features • AEC-Q200 qualified • Dual winding inductors that can be used as a single inductor, SEPIC, Flyback, or other coupled
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
330W High Power Density AC/DC Solution
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

Dual-Bridge DC-DC Converter: A New Topology of No ...

Dual-Bridge DC-DC Converter: A New Topology of No Deadtime DC-DC Converters* high power density, high efficiency, high reliability and low current iin and the voltage Vp across the primary winding of the transformer This research presents two topologies of no deadtime DC-

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

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

specifically tailored to an efficient power-density-design of discrete EMI filters for power electronic converters [4]-[10] Some techniques are simply based on setting up a compact layout by using suitable winding structures and high performance magnetic materials for the inductance cores [4]-[6]

Magnetic Saturation of High Power Medium Frequency ...

Magnetic Saturation of High Power Medium Frequency The Dual Active Bridge Unmatched turn-on/turn-off times Voltage is applied for a longer/shorter time in Core&LV winding Water-cooled of DC flux density bias ! Heatsink Potted isolation between LV and MV idi 5 windings

Predictive Power Control of Novel N*3-phase PM Energy ...

Abstract: High power density energy storage permanent magnet (PM) motor is an important energy storage module in flywheel energy storage system for urban rail transit To expand the application of the PM motor in the field of urban rail transit, a predictive power control (PPC) strategy for the

Design considerations for high-frequency coaxial winding ...

The use of coaxial transformers for high-frequency, high- power converters was proposed in [11 The coaxial transformer concept has been used with considerable success in various converters including a 50 kHz, 50 kW dual active bridge dc/dc converter and a 600 watt, 1 MHz dual ...

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

Brushless DC Motor Design for Electric Traction System

Armature winding on the stator makes it easy to conduct heat away from the winding High speed, high power to size ratio, and no arcing on commutation The electric vehicle application requires high power density of the motor which is possible with dual air-gap type axial-flux Brushless DC Motor Design for Electric Traction System

CHAPTER 2 DESIGN AND DEVELOPMENT OF DOUBLE ...

windings, one set of RUN winding is energised to have sufficient MMF to meet the reduced mechanical load, thereby the flux density in stator core reduces, reduced eddy current losses and copper losses Depending on the shaft load of the machine, second set of RUN winding is ...

Alternative High-Performance Motors with Non-Rare Earth ...

challenging in terms of power density , efficiency and cost This requires a comprehensive approach to advance the state of the art, including novel concepts to push past barriers • High speed is key to high power density • High speed leads to higher electrical frequency • Higher stator core and

rotor losses

Analysis and Design of a Dual-Rotor Axial-Flux Vernier ...

Abstract—This paper proposes a dual-rotor, toroidal-winding, axial-flux vernier permanent magnet (VPM) machine By the type VPM machine which has a high torque density as well as high power factor In [16] a five-disk axial-flux-modulated Analysis and Design of a Dual-Rotor Axial-Flux Vernier Permanent Magnet Machine W

Torque density improvement in a six-phase induction motor ...

on the power ratings for the static converter For these reasons, six-phase induction motors are beginning to be a widely acceptable alternative in high power applications A typical construction of such drives includes an induction machine with a dual three-phase connection, where two ...

Double Stator Winding Induction Generator for Wind and ...

generator has many advantages, such as low noise, high efficiency, and high power density In a split- wound machine, the stator winding consists of two similar but separate three-phase windings wound

Axial Flux, Modular, Permanent-Magnet Generator with a ...

low speed, high torque, and variable speed generation The generator is easy to manufacture and the design can be scaled up for a larger size without major retooling A modular permanent-magnet generator with axial flux direction was chosen The permanent magnet used is NdFeB or ferrite magnet with flux guide to focus flux density in the air gap

Coupled Dual Interleaved Flyback Converter for High Input ...

Coupled Dual Interleaved Flyback Converter for High Input Voltage Application Ting Qian, Brad Lehman There is an increasing demand in modern power electronics for high density power converters In most cases, the size of output inductor winding is added in the center leg to optimize