

# Dual Winding High Power Density Shielded Drum Core Power

## [EPUB] 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

#### **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 PERMANENT magnet (PM) motor has been widely used in hybrid electric vehicles, aerospace and other fields because of the merits such ...

#### **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

#### **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

#### **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  $i_{in}$  and the voltage  $V_p$  across the primary winding of the transformer This research presents two topologies of no deadtime DC-

### **Design and Analysis of Partitioned-Stator Switched-Flux ...**

simplicity of the machine structure, the development of dual-excitation (DE) machines has been regarded as a promising solution [20,21] In Reference [19], the proposed DE machine installs its DC-field winding together with high-energy-density PM accommodation, and hence sacrifices some of its PM material space for DC-field winding installation

### **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]

### **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 ...

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

The present paper proposes a new dual PM rotor, SM drive with basically a single stator (with a Gramme-ring or dual winding, one on each side of stator) and dual rotor with different pole counts and high winding factors, to reduce volume, weight and cost in either planetary-gear parallel HEV or in series HEV 2 Constructive elements

### **application note - Custom Transformers & Inductors Design ...**

application note (p 2) continued switchmode power supply transformer design high current density power has been mitigated for the transformer designer because silicone devices such as IGBT's have current and frequency limits below what transformers can accommodate today

### **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

### **High Frequency Isolated Power Conversion from Medium ...**

High Frequency Isolated Power Conversion from Medium Voltage AC to Low Voltage DC Shishuo Zhao Mostly used high frequency high power DC/DC converter topology dual active bridge (DAB) is power density and efficiency Firstly, two mostly used transformer structures are compared

### **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

### **DRA Series Magnetics Solutions High Power Density, For ...**

• Customized dual winding versions available upon request for SEPIC or Flyback configurations Applications • Automotive Electronics (under the hood, interior/exterior) High Power Density, High Efficiency, Shielded Inductors Magnetics Solutions For Automotive Applications

### **Dual Interleaved LLC Converter for High Power Applications ...**

1Abstract—Dual interleaved LLC resonant converter with half bridge topology of main circuit characterized by high switching frequency (500 kHz), high power density (60 W/inch<sup>3</sup>) and high efficiency (above 96 %) over entire operational range (20 %-100 %) is described Focus was given

### **Design Methodology and Optimization of a Medium ...**

that specific core dimensions for specific high power density applications can be tailored by core manufacturers Fig 2 shows the proposed optimization flowchart used for designing a medium frequency high power transformer which is supposed to meet the mentioned requirements First, the converter level requirements, ie, output power

#### **High Efficiency High Power Density Onboard Battery Charger ...**

High Efficiency High Power Density Onboard Battery Charger for Electric Vehicles Carlos H G Treviso, UEL, Brazil, chtreviso@gmailcom Marcos J Jacoboski, UFSC, Brazil, marcosjose@inepufscbr

#### **IOP Conference Series: Materials Science and Engineering ...**

Gramme-ring or dual winding, placed on either extremities of the stator) and dual rotor equipped with power density if the number of pole-pairs is sufficiently high and the ratio axial length/outer diameter is low [1], [3], [12] if the machine has a high number of pole pairs,  $q$  decreases

#### **High Efficiency Drive of Dual Inverter Driven SPMSM with ...**

High Efficiency Drive of Dual Inverter Driven SPMSM with Parallel Split Stator Yongjae Lee\* and Jung-Ik Ha\* Abstract - This paper describes dual inverter drive for a fractional-slot concentrated

#### **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