

# GENERAL CONSIDERATIONS FOR IGBT AND INTELLIGENT POWER MODULES

## 3.0 General Considerations for IGBT and Intelligent Power Modules

H-Series IGBT and Intelligent Power Modules are based on advanced third generation IGBT and free-wheel diode technologies. The general guidelines for power circuit, snubber and thermal system design are essentially the same for both product families. This section will cover these general application issues. The sections that follow will give specific details for each product family.

## 3.1 Numbering System

- (1) Devices:  
CM = IGBT Module  
PM = IPM
- (2) Current Rating  $I_c$  (Ampere)
- (3) For IPM:  
H = Single  
D = Dual  
C = Six in one  
R = Seven in one
- (4) IGBT Module:  
H = Single  
D = Dual  
T = Six  
E3 = Brake
- (5) Outline or Minor Change
- (6) For IGBT Module:  
Voltage,  $V_{CES}$  Volts (x50)
- (7) For IPM:  
Voltage  $V_{CES}$  Volts (x10)
- (8) For IGBT Module:  
F = F series (Trench Gate)  
H = H series/U series
- For IPM:  
S = Third Generation  
V = V-Series

Examples:

**CM 100 T U - 24 F**

(1)
(2)
(4)
(5)
(6)
(8)

CM100DY-24H is a 100 Ampere, 1200 Volt, Dual IGBT Module

**PM 600 H SA 120**

(1)
(2)
(3)
(6)
(5)
(7)

PM600HSA120 is a 600 Ampere, 1200 Volt, Single IPM

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# General Considerations For IGBT And Intelligent Power Modules

**M. Godoy Simões, Felix A. Farret**



## **General Considerations For IGBT And Intelligent Power Modules:**

**Control of Power Inverters in Renewable Energy and Smart Grid Integration** Qing-Chang Zhong, Tomas Hornik, 2012-11-16 Integrating renewable energy and other distributed energy sources into smart grids often via power inverters is arguably the largest new frontier for smart grid advancements. Inverters should be controlled properly so that their integration does not jeopardize the stability and performance of power systems and a solid technical backbone is formed to facilitate other functions and services of smart grids. This unique reference offers systematic treatment of important control problems in power inverters and different general converter theories. Starting at a basic level, it presents conventional power conversion methodologies and then non-conventional methods with a highly accessible summary of the latest developments in power inverters as well as insight into the grid connection of renewable power. Consisting of four parts: Power Quality Control, Neutral Line Provision, Power Flow Control, and Synchronisation, this book fully demonstrates the integration of control and power electronics. Key features include the fundamentals of power processing and hardware design, innovative control strategies to systematically treat the control of power inverters, extensive experimental results for most of the control strategies presented, the pioneering work on synchronverters which has gained IET Highly Commended Innovation Award. Engineers working on inverter design and those at power system utilities can learn how advanced control strategies could improve system performance and work in practice. The book is a useful reference for researchers who are interested in the area of control engineering, power electronics, renewable energy, and distributed generation, smart grids, flexible AC transmission systems, and power systems for more electric aircraft and all electric ships. This is also a handy text for graduate students and university professors in the areas of electrical power engineering, advanced control engineering, power electronics, renewable energy, and smart grid integration.

**Technologies for Electrical Power Conversion, Efficiency, and Distribution: Methods and Processes** Antchev, Mihail, 2009-12-31 This book presents an overall description of electrical energy conversion technologies and required power electronic converters. Provided by publisher.

**Electric Power Conversion** Marian Gaiceanu, 2019-05-15 The introductory chapter to this book is like traveling in a time machine into past, present, and future of electric power conversion. Archeological discoveries are being transformed into the discoveries of the future. The book is an incursion to electric power conversion through electromechanical power conversion, static power conversion, and applications in the field. Each of the above-mentioned sections analyzes the knowledge gained using the experimental results of valuable research projects. Novice readers will learn how energy is converted adequately and adapted to different consumers. Advanced readers will discover different kinds of modern solutions and tendencies in the field of electric power conversion.

**Active Tj and Delta Tj Control of Power Electronics** Jeffrey J. Connors, 2004

**Modeling of Topologies, Modulation and Control of Stacked DC Bus Multi Level Converters** Ashish R. Bendre, 2003

*Leistungselektronik* Franz Zach, 2010-03-18 Die Methoden der Leistungselektronik gewinnen st

ndig an Bedeutung insbesondere f r die Entwicklung neuer Motorkonzepte wie Hybridantriebe In dieser komplett bearbeiteten und wesentlich erweiterten Ausgabe des Standardwerks von Professor Zach werden Aufbau Wirkungsweise und Analyse der Schaltungsprinzipien und der elektrischen Vorg nge anhand von Funktionsabl ufen Zeitdiagrammen und Schnittzeichnungen grundlegend dargestellt Besonders wichtige und repr sentative Strukturen und Methoden werden mit Hilfe von schematischen Darstellungen erkl rt Neben den konventionellen starkstromtechnischen Aspekten der Leistungskreise und der Schaltungstechnik werden auch die Steuerungskreise und die R ckwirkungen auf die elektrischen Netze sowie die Beeinflussungen von Nachrichtensystemen eingehend behandelt W hrend in den ersten Ausgaben vor allem die mehr energietechnischen Komponenten im Vordergrund standen ber cksichtigt die Neuauflage auch neuere Bauelemente der Leistungselektronik Erstmals werden diese Elemente ausf hrlich beschrieben sowie einige zukunftsrichtige Konzepte dargelegt Ein detailliertes Inhalts und Stichwortverzeichnis erm glicht das gezielte Nachschlagen und schnelle Auffinden spezieller Themen

**Sistemas de transmisión flexibles** Juan Manuel Ramírez, 2010-10-06 El material seleccionado en este texto es la recopilaci n de diferentes trabajos de posgrado Se presenta la aplicaci n de algunas t cni transmisi n flexibles FACTS los cuales se utilizan cada vez m s en sistemas el ctricos de potencia tanto en redes de transmisi n como en redes de distribuci n En esta obra se revisan las caracter sticas m s relevantes de los diferentes dispositivos de estado s lido que se utilizan en la construcci n de los FACTS Adem s se introduce a las t cnicas de conversi n CD CA utilizadas en la implementaci n de los FACTS de segunda generaci n Tambi n se estudia en detalle el fundamento de algunos de los dispositivos m s utilizados debido a las bondades de sus caracter sticas operativas TSCS StatCom SSC y UPFC ilustrando las aplicaciones de estado estacionario en sistemas el ctricos de potencia Finalmente se introduce el concepto de la conversi n CA CA que constituye el fundamento de los FACTS de tercera generaci n ilustrando aplicaciones del control de flujo de potencia compleja en las l neas

*Alternative Energy Systems* M. Godoy Simões, Felix A. Farret, 2007-12-10 New perspectives on using induction generators in alternative energy technologies Durable and cost effective induction power generators have undergone numerous improvements that make them an increasingly attractive option for renewable energy applications particularly for wind and hydropower generation systems From fundamental concepts to the latest technologies *Alternative Energy Systems Design and Analysis with Induction Generators* Second Edition provides detailed and accurate coverage of all aspects related to the design operation and overall analysis of such systems Placing a greater emphasis on providing clear precise and succinct explanations this second edition features new revised and updated content as well as figures tables equations and examples Each chapter introduces a multi step chapter length problem relating the material to a real application The solution appears at the end of the chapter along with additional practice problems and references New Material in This Edition Updated definitions for generated power and efficiency Technological advances such as new applications using doubly fed induction generators New methodologies such as the magnetization curve representation for

induction generators Additional focus on renewable energy applications such as sea wind and hydropower systems Totally re written and updated chapter covering doubly fed induction generators Alternative Energy Systems provides the tools and expertise for advanced students and professionals in electrical mechanical civil and environmental engineering involved in the development of power plants Analysis, Optimization and Control of Grid-Interfaced Matrix-Based Isolated AC-DC Converters Jaydeep Saha,2022-11-05 This book presents novel contributions in the development of solid state transformer SST technology both for medium voltage MV and low voltage LV utility grid interfaces which can potentially augment the grid modernization process in the evolving power system paradigm For the MV interface a single stage AC DC SST submodule topology has been proposed and its modulation and soft switching possibilities are analysed experimentally validated and adequately benchmarked A control scheme with power balance capability among submodules is developed for MV grid connected single stage AC DC SST for smooth operation under inevitable parameter drift scenario and experimental validation shows excellent performance under drastic load change conditions A novel machine learning aided multi objective design optimization framework for grid connected SST is developed and experimentally validated which equips a power electronics design engineer with meagre computational resources to find out the most optimal SST design in a convenient time frame This book has also contributed towards the development of dual active bridge DAB type and non DAB type LV grid interfaced isolated AC DC converters by providing solutions to specific topology and modulation related shortcomings in these two types of topologies A comprehensive comparison of the DAB and non DAB type LVAC LVDC converters reveals the superiority of DAB type conversion strategy *Fifth European Conference on Power Electronics and Applications* ,1993 Journal of Electronic Engineering ,1992 *Proceedings of the ... International Symposium on Power Semiconductor Devices and ICs* ,2004 JEE, Journal of Electronic Engineering ,1992 **Fifth European Conference on Power Electronics and Applications** Institution of Electrical Engineers,1993 **Advanced Control of Doubly Fed Induction Generator for Wind Power Systems** Dehong Xu,Frede Blaabjerg,Wenjie Chen,Nan Zhu,2018-06-28 Covers the fundamental concepts and advanced modelling techniques of Doubly Fed Induction Generators accompanied by analyses and simulation results Filled with illustrations problems models analyses case studies selected simulation and experimental results Advanced Control of Doubly Fed Induction Generator for Wind Power Systems provides the basic concepts for modelling and controlling of Doubly Fed Induction Generator DFIG wind power systems and their power converters It explores both the challenges and concerns of DFIG under a non ideal grid and introduces the control strategies and effective operations performance options of DFIG under a non ideal grid Other topics of this book include thermal analysis of DFIG wind power converters under grid faults implications of the DFIG test bench advanced control of DFIG under harmonic distorted grid voltage including multiple loop and resonant control modeling of DFIG and GSC under unbalanced grid voltage the LFRT of DFIG including the recurring faults ride through of DFIG and more In addition this resource Explores the

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