pcim
ASIA SHANGHAI

24-26, September,2025
Conference Room, Hall N4
Shanghai New International Expo Centre, China

Conference Agenda

Wednesday, September 24, 2025

MORNING	09:10-10:00	**Conference Opening & Award Ceremony** Conference Director: Leo Lorenz, ECPE, DE Conference Room 1			
	10:00 - 10:40	**Keynote 1: Technological Evolution and Future Perspectives of Electric Vehicle** Speaker: Liu Chang, SuZhou Inovance Automotive Co., ltd. Chair: Meiqin Mao, Hefei University of Technology, CN Conference Room 1			
	10:40 - 10:55	Tea break & Room change			
	10:55 - 12:45	**Oral Session: WBG I_SiC** Chair: Naoto Fujishima, Fuji Electric, JP Conference Room 1		**Oral Session: Smart Grid Power Electronics** Chair: Dapeng Zheng, Shenzhen Hopewind Electric, CN Conference Room 2	
AFTERNOON	12:45 – 13:30	Lunch Break			
	13:30 - 15:00	**Power Si-Devices** Chair: Shunli Wang, Inner Mongolia University of Technology, CN Poster Dialogue Session 1	**WBG Devices** Chair: Ziying Chen, CN Poster Dialogue Session 2	**Packaging & Reliability** Chair: Gaosheng Song, Mitsubishi Electric Semiconductor, CN Poster Dialogue Session 3	**Power Converter** Chair: Guoqiang Zhang, Harbin Institute of Technology, CN Poster Dialogue Session 4
	15:00 - 16:40	**Oral Session: Si Device** Chair: Yi Tang, Starpower Semiconductor, CN Conference Room 1		**Oral Session: Packaging & Reliability I** Chair: Norbert Pluschke, CN-iCuTech Semiconduc- Conference Room 2	

Thursday, September 25

MORNING	09:30-10:10	**Keynote 2: Ultra-Compact and Efficient Power Supply Enabling AI Computing** Speaker: Teng Long, University of Cambridge Chair: Xuhui Wen, Institute of Electrical Engineering, Chinese Academy of Sciences, CN Conference Room 1			
	10:10 - 10:25	Coffee Break & Room Change			
	10:25 - 12:15	**Oral Session: WBG II_GaN** Chair: Gourab Majumdar, Mitsubishi Electric Corporation, JP Conference Room 1		**Oral Session: Motor Drive & Motion Control** Chair: Tianhao Tang, Shanghai Maritime University, CN Conference Room 2	
AFTERNOON	12:15 – 13:30	Lunch Break			
	13:30 - 15:00	**Motor Control** Chair: Jinsong Kang, Tongji University, CN Poster Dialogue Session 5	**High Frequency Power Converter** Chair: Min Chen, Zhejiang University, CN Poster Dialogue Session 6	**Smart Grid & Energy Transmission** Chair: Teng Liu, China Southern Power Grid Electric Power Research Institute, CN Poster Dialogue Session 7	
	15:00 - 16:40	**Oral Session: SiC related hybrid switch** Chair: Yijen Chan, Cyntec Co., Ltd, TW, CN Conference Room 1		**Oral Session: Packaging & Reliability II** Chair: Wei Jing, Semikron Danfoss, CN Conference Room 2	

Friday, September 26

MORNING	09:30-10:10	**Keynote 3: Evolutionary Trends in Power Supply for AI Data Centers** Speaker: Zhaozheng Hou, Huawei Digital Power. Chair: Jinjun Liu, Xi´an Jiaotong University, CN Conference Room 1			
	10:10 - 10:25	Coffee Break & Room Change			
	10:25 - 12:40	**Special Session:"Power Chiplet" technology, ultra-high-power density platform for future power electronics** Chair: Naoto Fujishima, Fuji Electric, JP Organizer: Ichiro Omura, Kyushu Institute of Technology Conference Room 1		**Oral Session: Advanced low power Module Design** Chair: Lifeng Chen, Infineon Technologies, CN Conference Room 2	
AFTERNOON	12:40 – 13:30	Lunch Break			
	13:00 - 18:00	**The PCIM Asia Shanghai Tour - E-mobility** *only by invitation, First in first served			

pcim Conference

Wednesday, Sep. 24, 2025 | SHA2C, Hall N4

Morning Session

08:00 a.m. Conference Room 1

Keynote Conference Session 1
Conference Opening & Award Ceremony
Conference Director Lou Lorenz, EPE, UK

Speaker: Conference Director

10:00 a.m. Conference Room 1

Technical Session **Technological Evolution and Future Perspectives of Electric Vehicle**

Speaker: Lucas Schulz, Volkswagen Automotive Co.,Ltd., CN

Chairperson: Yong Li, Hefei University of Technology, CN

10:40 a.m. Coffee Break & Room Change

Afternoon Session

Keynote 13:00 p.m.-14:00 p.m.

Conference Room 1

WBG I, SiC

Chairperson: Kazimir Kaminski, Kaminski Consulting, CH

Chair's opening speech

13:05 p.m.
200 V GaN MOSFET Unlocks New Efficiency Benchmark for Compact Power Supplies for Consumer & Enterprise Applications
Dawei Kang, Allkhor Semiconductor Technology Co.,Ltd.

13:20 p.m.
Impact of P and Al Content on Electrical Performance of 1.2 kV 4H-SiMOSFETs for Power Electronics Applications
Sebastian Hoffmann, Technical University Darmstadt, DE

13:35 p.m.
Research on Overcurrent Protection Method of Silicon Carbide Metal-Oxide-Semiconductor Field-Effect Transistor MOSFETs in DCCBs
Yuhong Zhang, Nanjing University of Aeronautics and Astronautics, CN

13:50 p.m.
Gate Oscillation of 1kV MOSFET Junction Temperature with Fast-Switching Silicon Carbide Hybrid Modules
Dan Zhang, Institute of Electrical Engineering, Chinese Academy of Sciences, CN

14:05 p.m.
Impact of P and Al Content on Electrical Performance of 1.2 kV 4H-SiMOSFETs for Power Electronics Applications
Sebastian Hoffmann, Technical University Darmstadt, DE

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Dan Zhang, Institute of Electrical Engineering, Chinese Academy of Sciences, CN

Conference Room 2

Smart Grid Power Electronics

Chairperson: Dapeng Zhang, Shenzhen Polytechnic University, CN

Chair's opening speech

13:05 p.m.
Advanced Energy Management Strategy for Microgrids Integrating Photovoltaic, Wind Power and Storage Capabilities
Lorenzo Gigoni, Politecnico di Milano, IT

13:20 p.m.
A High-Performance Bidirectional Synchronous Rectifier Module Based on 1.2kV/40mΩ SiC MOSFETs for Energy Storage Systems
Lorenzo Gigoni, Politecnico di Milano, IT

13:35 p.m.
Gallium Nitride Enhancing Frequency Boosting in Hybrid DCDC and Bidirectional Inverter Systems
Lorenzo Gigoni, Politecnico di Milano, IT

14:05 p.m. Lunch Break

Afternoon Session

Keynote 14:00 p.m.-15:00 p.m.

Conference Room 1

Si Devices

Chairperson: Yi Tang, Dongguan Technologies, CN

Chair's opening speech

14:05 p.m.
A Low-DCR Platform for up to 1000A Power Inductors with all-round capability
Jonathan Ginnebaugh, Vishay Intertechnology, Inc., US

14:20 p.m.
Enhanced 1kV & 1700 V SiC Diodes with Microplasma Trench Design for Improved Robustness & Reliability
Jens Schneider, Semikron Danfoss, DE

14:35 p.m.
Enhancement 1200V SiMT and Trench Technology for Automotive Grade Power Applications
Jing Wu, Huawei Technologies, CN

14:50 p.m.
Asymmetric BSD protection in automotive trench power MOSFETs for 48V Mild Hybrid Applications
Jonathan Ginnebaugh, Vishay Intertechnology, Inc., US

Conference Room 2

Packaging & Reliability I

Chairperson: Hesham Ghazlan, Consultant, US

Chair's opening speech

14:05 p.m.
Effect of Processing Condition on Electrical Properties of Ag Sintered Joints for Power Electronic Applications
Shiho Ito, Sumitomo Electric Semiconductor Technologies, JP

14:20 p.m.
Pull Out Test Method for High Efficiency Applications
Ralf Dudzek, Hesham Ghazlan, Dr. Dudzek & Associates Research Consultants, US

14:35 p.m.
High Performance Materials Assessment for Power Modules
Hesham Ghazlan, Consultant, US

14:50 p.m.
Reliability Assessment of Sintering – Die attach and Substrate Attach in Power Modules for EV Traction
Dr Ralf Dudzek, Hesham Ghazlan, Dr. Dudzek & Associates Research Consultants, US

Afternoon Session

Conference Room 1

Si Devices

Chairperson: Kevin Wang, Sino Microgate Innovation, CN

Chair's opening speech

15:15 p.m.
Superjunction MOSFET with a Trench Oxide and Embedded SiC Schottky Diode for Improved Reverse Recovery
Yuichi Onozawa, Fuji Electric Technology Co., Ltd., JP

15:30 p.m.
New developed 3.3kV/10.4mA Diode for high voltage application
Jing Zhao, Zhuzhou CRRC Times Semiconductor Co., CN

15:45 p.m.
Charge Sharing in Silicon Diodes for Cathode Side Lifetime Reduction
Jan Einstein, Semikron Danfoss, DE

16:00 p.m.
Benefits of 3D'S TRIN Technology in Automotive Inverter Applications
Jing Wu, Huawei Technologies, CN

16:15 p.m.
The Impact of Gate Drive Loop Inductance on Switching Performance of Silicon Carbide Power Devices
Jia Hong, Infineon, CN

16:30 p.m.
Optimized Wafer Jacket Pre-Fix Design for Reducing Pressure Drop in Cooling System
Jianhong Chen, Infineon, CN

16:45 p.m.
1200V and 650V Automotive Power Module Applications in Various Hybrid and Electric Vehicle Powertrain Inverter Jian Jiang, IXYS

17:00 p.m.
New Intelligent power modules (IPM)for 800 V EV and 48 V mild hybrid vehicle powertrain applications
Yuan Gao, Mitsubishi Electric Technologies Hong Kong, CN

Conference Room 2

WBG Devices

Chairperson: Qiang Chen, CN

15:15 p.m.
Investigation on Channel Mobility of SiC Trench MOSFET
Ji Pei, Huawei Marine OBC Power Semiconductor Co., CN

15:30 p.m.
A Robust and Reproducible Gate Oxide Reliability Characterization Methodology for Automotive Grade Devices
Wenyi Zhu, Robert Bosch Gmbh, DE

15:45 p.m.
Application of SiC Hybrid Diodes in Automotive Inverter Systems
Xiao Ma, Marine Science & Technology Co., CN

16:00 p.m.
Sintering Service: Investigation of Sintering Process for Power Devices
Ji Pei, Huawei Marine OBC Power Semiconductor Co., CN

16:15 p.m.
Leveraging Ultra-High Efficiency in Data Center Power Supply Applications
Dan Liu, Power Integrations, CN

16:30 p.m.
Low-Inductance 1200V SiC Power Module Design for Medium-Power Drives
Yuhong Li, Infineon Technology Asia Pacific Ltd.

16:45 p.m.
An Optimized Driver Design Strategies for Energy Storage Bidirectional Converter
Qian Wu, Infineon Technologies, CN

17:00 p.m.
Rooftop High Performance 200kW/h Energy Storage Solution Based on SiC MOSFET
Jun Liu, Mitsubishi Electric & Electronics Beijing Co., Ltd., CN

17:15 p.m.
A Step Method to Derive the Thermal Field Inverse Problem of Bridgeless PFC Rectifier
Shuang Gao, Tianjin University, CN

17:30 p.m.
High Voltage Inductive Input Units Based on Silicon Carbide Technology
Yan Bondarenko, Transphorm, IE

17:45 p.m.
Wide Bandgap Solutions for Data Center Power Supplies
Yan Bondarenko, Transphorm, IE

Conference Room 1

Packaging and Reliability

Chairperson: Eisenberg Dong, Hefei Institutes of Technology, CN

Chair's opening speech

16:15 p.m.
Application of Co Sintering Technology in Power Electronics Double-Sided Cooling Power Module
Haijun Chen, Zhejiang University, CN

16:30 p.m.
Investigation of Large Area Solder with "Footbridge" Platform on Bare Copper Substrate
Jiang Yang, Nanjing Medical University, CN

16:45 p.m.
Design and Assessment of SiC/Al Composite Substrate Based Power Semiconductor for Heat Dissipation
Sabari Bhag, Intra Resources Nuclear Power Co., Ltd., CN

17:00 p.m.
Influence of the Junction Temperature on Short-Circuit Failure Mechanism of SiC MOSFETs
Jiang Yang, Nanjing Medical University, CN

17:15 p.m.
Spatial Temporal Customizable Multi-Physics Simulation Platform and Office for Power Devices Reliability Research
Yu Bai, Beijing University of Technology, CN

17:30 p.m.
Fault Classification Method for Power Devices Based on Supervised Circuit and SVM
Jian Li, Hefei University of Technology, CN

Conference Room 2

Power Converter

Chairperson: Guoqiang Zhang, Hefei Institute of Technology, CN

Chair's opening speech

16:15 p.m.
Highly Efficient Auxiliary Power Supply Design for Energy Storage Converter Applications
Jian Wu, Infineon Technologies, CN

16:30 p.m.
An Optimized Driver Design Strategies for Energy Storage Bidirectional Converter
Qian Wu, Infineon Technologies, CN

16:45 p.m.
Rooftop High Performance 200kW/h Energy Storage Solution Based on SiC MOSFET
Jun Liu, Mitsubishi Electric & Electronics Beijing Co., Ltd., CN

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A Step Method to Derive the Thermal Field Inverse Problem of Bridgeless PFC Rectifier
Shuang Gao, Tianjin University, CN

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High Voltage Inductive Input Units Based on Silicon Carbide Technology
Yan Bondarenko, Transphorm, IE

17:30 p.m.
Wide Bandgap Solutions for Data Center Power Supplies
Yan Bondarenko, Transphorm, IE

17:45 p.m.
4H-SiC 3-Phase Interleaved Bidirectional Inverter Design and Transformer for Data Center
Zhuo Sun, Sunfar Electronics, JP

18:00 p.m.
A Dual Airflow Intercooled DC Link Capacitor for Traction Inverters
Zhuoding Zhao, Hefei Institute of Technology, CN

18:15 p.m. Lunch Break

pcim Conference

Thursday, Sep. 25, 2025 | SHA2C, Hall N4

Morning Session

08:00 a.m. Conference Room 1

Keynote Conference Session 2
Ultra-Compact and Efficient Power Supply Enabling AI Computing

Speaker: Chris Wong, Infineon Technologies, CN

Chairperson: Yong Wan, Infineon Technologies, CN

10:15 a.m. Coffee Break & Room Change

Afternoon Session

Keynote 13:00 p.m.-14:00 p.m.

Conference Room 1

WBG II, GaN

Chairperson: Nicolai Mallwitz, Consultant Office, Consultant, CH

Chair's opening speech

13:05 p.m.
System Benefits of Active Drives by GaN Special Inverter
Yuichiro Kawaguchi, Nagoya Institute of Technology, JP

13:20 p.m.
Dynamic On-Resistance Characterization of 650V GaN HEMTs under High Temperature Using Multigrade Double Pulse Test
Yu Hu, Peking University, CN

13:35 p.m.
Leveraging Ultra-High Efficiency in Data Center Power Supply Applications
Dan Liu, Power Integrations, CN

13:50 p.m.
GaNPX 100V Bidirectional Ultra Wide Output Series PFC Converter Enabling Energy Storage Systems
Hongtao Zhang, Shanghai University, CN

Conference Room 2

Motor Drive & Motion Control

Chairperson: Tianxiao Tang, Shanghai Maritime University, CN

Chair's opening speech

13:05 p.m.
Dual Position Feedback Based Sensorless Control Strategy for Permanent Magnet Synchronous Motor Control
Yuan Li, Hefei Institute of Technology, CN

13:20 p.m.
A Flexible Operated Low-Inductance Busbar Design for Motor Drives in Electric Vehicle Applications
Jian Wu, Infineon Technologies, CN

13:35 p.m.
Sensorless Speed Regulation PI/PSO Cycle-by-Cycle Controller Based on Sliding Mode Observer Assisted Kalman Filter
Yuan Jiangchao, Infineon Technologies, CN

13:50 p.m. Lunch Break

Afternoon Session

Keynote 14:00 p.m.-15:00 p.m.

Conference Room 1

SiC related hybrid switch

Chairperson: Qian Chen, Cynthia Co., Ltd., TW, CN

Chair's opening speech

14:05 p.m.
Analysis and Study on the Performance Improvement of SiC/SiC Hybrid Switch
Yuan Jiangchao, Infineon Technologies, CN

14:20 p.m.
Exploring a new 650 V SiC Hybrid Switch Technology for DPAK7 Protection
Qian Chen, Cynthia Co., Ltd., TW, CN

14:35 p.m.
Exploring – Novel hybridization concepts for Silicon Carbide (SiC) power switches in 3000V battery electrical vehicles inverter applications
Nicolai Mallwitz, Consultant Office, Consultant, CH

14:50 p.m.
Practically achievable MCZC Non-Isolated Bidirectional DC-DC Converter with approach of 1 kW & substantial inverter interface capability for Electric Vehicles
Ralf Dudzek, Hesham Ghazlan, Dr. Dudzek & Associates Research Consultants, US

15:05 p.m.
Low-cost, high capacity, discharge methods with SiC/SiC Active power modules for Electric Vehicle Battery Management
Chris Wong, Infineon Technologies AG, Germany, CH

Conference Room 2

Packaging Reliability II

Chairperson: Min Jing, Sanhelian Semiconductor, CN

Chair's opening speech

14:05 p.m.
Comparative Analysis on Series Resonant Converter and CLLC Resonant Converter for Power Inverter Applications
Chaoqi Shi, Shanghai University, CN

14:20 p.m.
Small Signal Modeling of Silicon Carbide Power Semiconductor Devices Based on Impedance Measurement
Yiming Xiangli, IHP Systems LLC, IN

14:35 p.m.
Improved Bi-directional Solid State Transformer Inverter Based on Series Resonant Converter
Jiang Bo, Zhejiang University, CN

14:50 p.m.
Key Functional Chip Contributions to the Compact Design of Automotive Grade Power Modules
Lihong Ma, Beijing Yuanxin Technology Co., Ltd., CN

15:05 p.m.
Optimized Embedded Phase Shift Control Strategy for Dual Active Bridge Converters in Automotive Applications
Jiang Xiang, Hefei Institute of Technology, CN

15:20 p.m.
Multi-Objective Optimization Design Method of Dual Active Bridge Converter Based on Deep Reinforcement Learning
Yuan Jiangchao, Infineon Technologies, CN

15:35 p.m.
Packaging Matters for Metallurgical Bonding of Power Semiconductors
Wenjie Yang, Ningbo Semiconductor, CN

Conference Room 1

Motor Control

Chairperson: Jinrong Wang, Tongji University, CN

15:15 p.m.
Model Delta Based PI Parameters Design Method of Field Oriented Control Vector Control Motor Drive System
Jinrong Wang, Tongji University, CN

15:30 p.m.
Research on Hairpin Flexible Connection Technology for Automotive Drive Motor Stator Winding
Yuting Wei, Hefei Institute of Technology, CN

15:45 p.m.
A Comprehensive Review of the Longitudinal End Effects in Linear Motors
Wei Liu, Tongji University, CN

16:00 p.m.
Parameter Identification of Rotation Joint with Harmonic Drive
Wei Liu, Hefei Institute of Technology, CN

16:15 p.m.
PSO Based Hybrid Pulse Observer Design for Permanent Magnet Synchronous Motor Drive
Yuan Jiang, Hefei Institute of Technology, CN

16:30 p.m.
Comparative Noise Control for Vibration and Electromagnetic Suppression in Force Sensing Motors
Yuan Jiangchao, Infineon Technologies, CN

Conference Room 2

High Frequency Drives

Chairperson: Min Chen, Zhejiang University, CN

15:15 p.m.
Analysis and Study on the Performance Improvement of SiC/SiC Hybrid Switch
Yuan Jiangchao, Infineon Technologies, CN

15:30 p.m.
Comparative Analysis on Series Resonant Converter and CLLC Resonant Converter for Power Inverter Applications
Chaoqi Shi, Shanghai University, CN

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Small Signal Modeling of Silicon Carbide Power Semiconductor Devices Based on Impedance Measurement
Yiming Xiangli, IHP Systems LLC, IN

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Improved Bi-directional Solid State Transformer Inverter Based on Series Resonant Converter
Jiang Bo, Zhejiang University, CN

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Key Functional Chip Contributions to the Compact Design of Automotive Grade Power Modules
Lihong Ma, Beijing Yuanxin Technology Co., Ltd., CN

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Multi-Objective Optimization Design Method of Dual Active Bridge Converter Based on Deep Reinforcement Learning
Yuan Jiangchao, Infineon Technologies, CN

17:00 p.m.
Packaging Matters for Metallurgical Bonding of Power Semiconductors
Wenjie Yang, Ningbo Semiconductor, CN

Smart Grid & Energy Transmission

Conference Room 1

Chairperson: Tong Zhang, Shenzhen Technology University, CN

Chair's opening speech

15:15 p.m.
New Generation Ultra-High Power Semiconductors for HDC HVDC Transmission
Eugen Lingenau, Hesham Ghazlan, CH

15:30 p.m.
Performance Analysis of Black and Lustre Partial Discharge Detection Sensor Based on Rogowski Coil
Bobbie Wang, Jiaxing JBF

15:45 p.m.
High Efficiency SiC MOSFET Solutions for Solar System
Jiaxing Chen, Guangdong Power Grid Co. Ltd. Foshan Power Supply Bureau, CN

Conference Room 2

Power Electronics Transformer

Chairperson: Jiaxing Chen, Guangdong Power Grid Co. Ltd. Foshan Power Supply Bureau, CN

Chair's opening speech

15:15 p.m.
Power Electronics Transformer for Extreme Fast Charging Stations
Tianxiao Tang, Shanghai Maritime University, CN

15:30 p.m.
Advanced Packages With Power For Extreme Fast Charging
Jian Wu, Infineon Technologies, CN

15:45 p.m.
Power Electronics Transformer Based Power Electronics – Embedding Power Electronics in Electrical Infrastructure Power Networks
Ian Evans, Fraunhofer IISB Nürnberg, DE

16:00 p.m.
Advanced Packages With Power For Extreme Fast Charging
Yanhong Wang, Infineon Technologies, CN

16:15 p.m.
Advanced Power Electronics Transformer Based Power Electronics
Yanhong Wang, Infineon Technologies, CN

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32:30 p.m.
Power Electronics Transformer Based Power Electronics
Yanhong Wang, Infineon Technologies, CN

32:45 p.m.
Power Electronics Transformer Based Power Electronics
Yanhong Wang, Infineon Technologies, CN

33:00 p.m.
Power Electronics Transformer Based Power Electronics
Yanhong Wang, Infineon Technologies, CN

33:15 p.m.
Power Electronics Transformer Based Power Electronics
Yanhong Wang, Infineon Technologies, CN

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