

### **Comparative study of possible implementations of the flexible power electronic interface for wide-range high step-up applications in DC microgrid**

**Khan, Salman; Chub, Andrii; Vinnikov, Dmitri;** Kasper, Matthias; Deboy, Gerald 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604370>

### **Cycle-skipping technique based on sigma-delta modulation in series resonant DC transformer**

Pittala, Lohith Kumar; **Chub, Andrii;** Sidorov, Vadim; **Khan, Salman;** Ricco, Mattia; Mandrioli, Riccardo 2025 IEEE Seventh International Conference on DC Microgrids (ICDCM) 2025 / 5 p <http://ieeexplore.ieee.org/document/11144699>  
<https://doi.org/10.1109/ICDCM63994.2025.11144699>

### **Electrification of transportation: policy framework, technical aspects and challenges in Pakistan - A case study**

Masood, Arsalan; Hassan, Syed Zulqadar; Kamal, Tariq; **Khan, Salman;** Rizvi, Syed Asad Abbas; Salman, Salman e-Prime - Advances in Electrical Engineering, Electronics and Energy 2024 / art. 100803, 18 p. : ill <https://doi.org/10.1016/j.prime.2024.100803>  
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### **Enhanced switched impedance inverter with tapped inductor**

Nozadian, Mohsen Hasan Babayi; **Hassanpour, Naser;** **Khan, Salman** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604411>

### **An overview of wide-voltage range isolated DC-DC converters**

**Khan, Salman; Chub, Andrii; Vinnikov, Dmitri** 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 6 p <https://doi.org/10.1109/RTUCON60080.2023.10413144>

### **Performance comparison of voltage-fed and current-fed series resonant converters for high step-up DC-DC applications**

**Khan, Salman; Chub, Andrii; Vinnikov, Dmitri** 2025 IEEE 19th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2025 / 6 p <https://doi.org/10.1109/CPE-POWERENG63314.2025.11027290>

### **Reliability evaluation of the universal power electronic interface converter for PV applications**

**Khan, Salman; Chub, Andrii; Vinnikov, Dmitri;** Kasper, Matthias; Deboy, Gerald 2024 IEEE 21st International Power Electronics and Motion Control Conference (PEMC) 2024 / 8 p <https://doi.org/10.1109/PEMC61721.2024.10726360>

### **Startup implementation in universal power electronics interface with dual-standard output for DC microgrid applications**

**Chauhan, Sachin; Khan, Salman; Chub, Andrii; Vinnikov, Dmitri;** Wunder, Bernd; Flores-Bahamonde, Freddy 2025 IEEE 19th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2025 / 6 p <https://doi.org/10.1109/CPE-POWERENG63314.2025.11027310>

### **Wide voltage gain current-fed isolated buck-boost series-resonant DC-DC converter with active clamp for DC microgrid applications**

**Khan, Salman; Chub, Andrii; Vinnikov, Dmitri; Kasper, Matthias; Deboy, Gerald; Sachin, Chauhan** 2025 IEEE Seventh International Conference on DC Microgrids (ICDCM) 2025 / 5 p <https://doi.org/10.1109/ICDCM63994.2025.11144687>  
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### **Wide voltage gain range galvanically isolated DC-DC converters - an overview**

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