

**A new high power factor single-phase diode rectifier with optimum ripple-power conversion**

**Sakkos, Tiiu; Sarv, Vello** BEC 2006 : 2006 International Baltic Electronics Conference : Tallinn University of Technology, October 2-4, 2006, Tallinn, Estonia : proceedings of the 10th Biennial Baltic Electronics Conference 2006 / p. 229-232 : ill

**A new high power factor three-phase diode rectifier using zero-sequence inductance in the third-harmonic filter**

**Sakkos, Tiiu; Sarv, Vello** The 4th International Conference Electric Power Quality and Supply Reliability : August 29...31, 2004, Pedase, Estonia : proceedings 2004 / p. 67-70 : ill

**A new low-distorting three-phase diode rectifier employing optimum ripple power control**

**Sakkos, Tiiu; Sarv, Vello** 4th International Workshop CPE 2005 : Compatibility in Power Electronics : Fifth International Research and Educational Colloquium on Electronics : 1-3 June 2005, Gdynia, Poland 2005 / p. 94-96 : ill  
[https://www.researchgate.net/publication/4196868\\_A\\_new\\_low-distorting\\_three-phase\\_diode\\_rectifier\\_employing\\_optimum\\_ripple\\_power\\_control](https://www.researchgate.net/publication/4196868_A_new_low-distorting_three-phase_diode_rectifier_employing_optimum_ripple_power_control)

**Active power factor correction of diode rectifiers using output filters with diode-switched and harmonic-resonant stages [Electronic resource]**

**Sakkos, Tiiu; Sarv, Vello** 8th European Conference on Power Electronics and Applications : EPE'99 : 7-9 September, EPFL Lausanne, Switzerland 1999 / [10] p. : ill [CD-ROM]

**An efficient switched-inductor filter for single-phase diode rectifiers**

**Sakkos, Tiiu; Sarv, Vello** Baltic electrical engineering review 1998 / 1, p. 25-29: ill

**An improved high power factor three-phase diode rectifier employing zero-sequence inductance and ripple power re-rectification**

**Sakkos, Tiiu; Sarv, Vello; Bolgov, Viktor** 3rd International Workshop Compatibility in Power Electronics : CPE 2003 : 28-30 May 2003, Gdansk - Zielona Gora, Poland 2003 / p. 124-126 : ill

**An improved high power factor three-phase diode rectifier employing zero-sequence inductance and ripple power re-rectification [Electronic resource]**

**Sakkos, Tiiu; Sarv, Vello; Bolgov, Viktor** 3rd International Workshop Compatibility in Power Electronics : CPE 2003 : 28-30 May 2003, Gdansk - Zielona Gora, Poland 2003 / p. 187-190 : ill. [CD-ROM]

**Analysis of current doubler rectifier based high frequency isolation stage for intelligent transformer [Electronic resource]**

**Beldjajev, Viktor; Roasto, Indrek; Vinnikov, Dmitri** CPE 2011 : 7th International Conference-Workshop Compatibility and Power Electronics : June 1-3, 2011, Tallinn, Estonia : conference guide 2011 / p. 336-341 [CD-ROM]

**Analysis of new bidirectional DC-DC converter based on current doubler rectifier**

**Beldjajev, Viktor; Roasto, Indrek** 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 10-15, 2011 2011 / p. 234-237 : ill

**Biasing error correction in averaging current-mode rectifiers**

**Männama, Vello; Wilson, Brett** Proceedings of the Estonian Academy of Sciences. Engineering 2000 / 2, p. 135-143 : ill

**Black start and fault tolerant operation of isolated matrix converter for DC microgrids**

**Emiliani, Pietro; Blinov, Andrei; Chub, Andrii; de Carne, Giovanni; Vinnikov, Dmitri** IECON 2022 - 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / 5 p <https://doi.org/10.1109/IECON49645.2022.9968735> [Conference proceedings at Scopus](#)  
[Article at Scopus](#)

**Comparative study of rectifier topologies for quasi-Z-source derived push-pull converter**

**Chub, Andrii; Husev, Oleksandr; Vinnikov, Dmitri** Elektronika ir elektrotechnika = Electronics and electrical engineering 2014 / p. 29-34 : ill

**Current-mode rectifier with improved precision**

**Männama, Vello; Wilson, B.** Electronics letters 1995 / 4, p. 247-248: ill

**Development of auxiliary power supplies for the 3.0 kV DC rolling stock**

**Vinnikov, Dmitri; Laugis, Juhan; Jalakas, Tanel** ISIE2007 : 2007 IEEE International Symposium on Industrial Electronics : June 4-7, 2007, Vigo, Spain : abstract book 2007 / p. 61 <https://ieeexplore.ieee.org/document/4374624>

**Dynamic reconfiguration for wide output voltage range isolated buck-boost PFC converter**

**Verbytskyi, Ievgen; Nadeem, Mohammad Mahad; Blinov, Andrei; Carvalho da Silva, Edivan Laercio; Chub, Andrii; Vinnikov, Dmitri** 2023 IEEE 8th Southern Power Electronics Conference and 17th Brazilian Power Electronics Conference (SPEC/COBEP) 2023 / 5 p. : ill <https://doi.org/10.1109/SPEC56436.2023.10407792>

**Efficient two-stage active filters for power factor correction of diode rectifiers**

**Sakkos, Tiiu; Sarv, Vello** PEMC'98 : 8th International Power Electronics & Motion Control Conference : Prague, Czech Republic, 8-

10 September, 1998 : proceedings 1998 / p. 7-1 - 7-6: ill

### **EMI problems of the high frequency 3-phase rectifier**

**Vinnikov, Dmitri; Lehtla, Tõnu; Joller, Jüri** 3rd International Scientific Workshop "Compatibility in Power Electronics" (CPE 2003) : Gdansk-Zielona Gora, Poland, 28-30 May, 2003 2003 / p. 159-161

### **Estimation of peak voltage value and its occurrence timing upon non-sinusoidal supply voltage**

**Daniel, Kamran; Kütt, Lauri;** Iqbal, Muhammad Naveed; **Shabbir, Noman; Jarkovoi, Marek** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / p. 1-6  
<https://doi.org/10.1109/CPE-POWERENG60842.2024.10604412>

### **EstLink 1 ja EstLink 2 : sarnased või sootuks erinevad elektriühendused Soomega?**

Haug, Reigo; **Kilter, Jako** Inseneeria 2014 / lk. 34-35 [https://artiklid.elnet.ee/record=b2664996\\*est](https://artiklid.elnet.ee/record=b2664996*est)

### **Evaluation of high power factor three-phase diode rectifiers with parallel-resonant input filters**

**Sakkos, Tiiu; Sarv, Vello** The 3rd International Conference Electric Power Quality and Supply Reliability, September 4...6, 2002, Haapsalu, Estonia : proceedings 2002 / p. 76-79 : ill

### **Experimental verification of DC/DC converter with full-bridge active rectifier**

**Blinov, Andrei;** Ivakhno, Volodymyr; Zamaruev, Vladimir; **Vinnikov, Dmitri; Husev, Oleksandr** IECON 2012 : 38th Annual Conference of the IEEE Industrial Electronics Society : Industrial Electronics for Sustainable Development 2012 / p. 5179-5184 : ill  
<https://ieeexplore.ieee.org/document/6389549>

### **High power factor single- and three-phase diode rectifiers using parallel re-rectification of the ripple power**

**Sakkos, Tiiu; Sarv, Vello** The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 199-202 : ill

### **Higher harmonics in load-adapting mains Frequency resonant converter**

**Janson, Kuno; Järvik, Jaan; Vinnal, Toomas** 8th International Conference on Harmonics and Quality of Power, October 14-16, 1998, Athens, Greece : proceedings. Vol. 2 1998 / p. 859-864: ill <https://ieeexplore.ieee.org/document/760155>

### **High-voltage auxiliary power supply with the simplified power circuit topology for the DC trains [Electronic resource]**

**Vinnikov, Dmitri; Laugis, Juhan** Proceedings of the 9th International Conference "Electrical Power Quality and Utilisation" : EPQU'2007 : Barcelona, Spain, October 9-11, 2007 2007 / [6] p. [CD-ROM] <https://ieeexplore.ieee.org/document/4424227>

### **Improved high-power-factor three-phase diode rectifiers using ripple-power re-rectification**

**Sakkos, Tiiu; Sarv, Vello; Järvik, Jaan** 9th European Conference on Power Electronics and Applications : 27-29 August 2001, Graz, Austria 2001 / p. DS3.1-1 : ill

### **Improved high-power-factor three-phase diode rectifiers using ripple-power re-rectification [Electronic resource]**

**Sakkos, Tiiu; Sarv, Vello; Järvik, Jaan** EPE 2001 : 9th European Conference on Power Electronics and Applications : 27-29 August 2001, Graz 2001 / [9] p. : ill. [CD-ROM]

### **Indirect power factor correction method and corresponding sensorless switch-mode resonant AC/DC converter [Electronic resource]**

**Šklovski, Jevgeni; Janson, Kuno** IECON'2006 : the 32nd Annual Conference of the IEEE Industrial Electronics Society : November 6-10, 2006, Paris : proceedings 2006 / p. 2378-2383 : ill. [CD-ROM] <https://ieeexplore.ieee.org/document/4153375>

### **Input-parallel output-series connection of isolated quasi-Z-source DC-DC converters**

**Chub, Andrii; Husev, Oleksandr; Vinnikov, Dmitri** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 277-284 : ill

### **Investigation of electrical characteristics of SiC based complementary JBS structures**

**Kurel, Raido** 2005 [https://www.ester.ee/record=b2053292\\*est](https://www.ester.ee/record=b2053292*est)

### **Isolation stage for power electronic transformer : dual active bridge vs bi-directional current doubler rectifier [Electronic resource]**

**Beldjajev, Viktor; Roasto, Indrek; Zakis, Janis** SPEEDAM 2012 : Sorrento (Italy) - June 20-22, 2012 : 21st edition of the International Symposium on Power Electronics, Electrical drives, Automation and Motion 2012 / p. 849-854 : ill [CD-ROM]  
<https://ieeexplore.ieee.org/document/6264545>

### **LPE process for industrial production of power GaAs rectifiers**

**Voitovitš, Viktor** Abstract book of 12th American Conference on Crystal Growth and Epitaxy : August 13-18, 2000, Vail, Colorado, USA 2000 / p. 114

### **LPE structures for power GaAs rectifiers**

**Voitoviš, Viktor** The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 237-240 : ill  
[https://artiklid.einet.ee/record=b1005558\\*est](https://artiklid.einet.ee/record=b1005558*est)

**Method for line current shape forming in ac-dc power supplies**

**Janson, Kuno; Järvik, Jaan; Šklovski, Jevgeni** 5th International Conference : Electric Power Quality and Supply Reliability : August 23-26, 2006, Viimsi, Estonia : conference proceedings 2006 / p. 27-34 : ill

**MPPT performance enhancement of low-cost PV microconverters**

**Vinnikov, Dmitri; Chub, Andrii; Korkh, Oleksandr; Liivik, Elizaveta; Blaabjerg, Frede; Kouro, Samir** Solar energy 2019 / p. 156-166 : ill <https://doi.org/10.1016/j.solener.2019.05.024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**New active diode-switched transformer filters to improve power factor of three-phase diode rectifiers with capacitive smoothing**

**Sakkos, Tiiu; Sarv, Vello** Proceedings of the Estonian Academy of Sciences. Engineering 1997 / 3, p. 158-170: ill

**A new low-distorting three-phase diode rectifier employing optimum ripple power control [Electronic resource]**

**Sakkos, Tiiu; Sarv, Vello** Proceedings of 4th International Workshop CPE 2005 : Compatibility in Power Electronics : Fifth International Research and Educational Colloquium on Electronics : 1-3 June 2005, Gdynia, Poland 2005 / [6] p. : ill. [CD-ROM]  
[https://www.researchgate.net/publication/4196868\\_A\\_new\\_low-distorting\\_three-phase\\_diode\\_rectifier\\_employing\\_optimum\\_ripple\\_power\\_control](https://www.researchgate.net/publication/4196868_A_new_low-distorting_three-phase_diode_rectifier_employing_optimum_ripple_power_control)

**A new transformer-less single switch boost DC-DC converter with lower stress**

**Mashinchi Maheri, Hamed; Mohammadzadeh Shahir, Farzad; Babaei, Ebrahim** 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), November 5-7, 2020 2020 / 6 p  
[http://www.conference.rtu.lv/qazcdeTGBmJURTUCON2020\\_paper\\_101Gq73sO95Kb30.pdf](http://www.conference.rtu.lv/qazcdeTGBmJURTUCON2020_paper_101Gq73sO95Kb30.pdf) <https://doi.org/10.1109/RTUCON51174.2020.9316470>

**New unity power factor diode rectifiers using ripple-power re-rectification**

**Sakkos, Tiiu; Sarv, Vello** Eighth International Conference on Power Electronics and Variable Speed Drives : 18-19 September 2000 2000 / p. 378-381 : ill <https://ieeexplore.ieee.org/document/888953>

**Numerical modeling of the electrothermal transient process in diode structures based on direct-cap-semiconductors**

**Velmre, Enn; Freidin, Boris** Physica status solidi. A, Applied research 1983 / p. K131-K134 [https://www.ester.ee/record=b1562026\\*est](https://www.ester.ee/record=b1562026*est)

**Power factor correction of single-phase diode rectifiers by a second-harmonic series-resonant filter stage**

**Sakkos, Tiiu; Sarv, Vello** BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 223-226: ill

**Power factor correction of three-phase diode rectifiers using optimum ripple-power control**

**Sakkos, Tiiu; Sarv, Vello** EPE-PEMC 2004 : 11th International Power Electronics and Motion Control Conference : 2-4 September 2004, Riga, Latvia : proceedings. Vol.5 of 7, Power supply quality, renewables, power systems and DER 2004 / p. 5-397 - 5-401 : ill

**Power factor correction on three-phase diode rectifiers using ripple-power re-rectification and resonant filters**

**Järvik, Jaan; Sakkos, Tiiu; Sarv, Vello** 48. Internationales Wissenschaftliches Kolloquium, 22.-25.09.2003, Technische Universität Ilmenau, Germany 2003 / p. 595-596 : ill

**Power factor correction on three-phase diode rectifiers using ripple-power re-rectification and resonant filters [Electronic resource]**

**Järvik, Jaan; Sakkos, Tiiu; Sarv, Vello** 48. Internationales Wissenschaftliches Kolloquium, 22.-25.09.2003, Technische Universität Ilmenau, Germany : proceedings and our portrait 2003 / [8] p. : ill. [CD-ROM]

**Power quality improvement technique for diode-bridge rectifiers using optimum re-rectification of the ripple power**

**Sakkos, Tiiu; Sarv, Vello** Electric Power Quality and Supply Reliability : June 9-12, 1999, Sagadi, Estonia : conference proceedings 1999 / p. 102-107: ill

**Precision AC/DC measurement converters with switched capacitors in the feedback path = Täpsed vahelduvpinge mõõtemuundurid ümberlülituvate kondensaatoritega tagasiside ahelas**

**Märtens, Olev** 1993 [http://www.ester.ee/record=b2089954\\*est](http://www.ester.ee/record=b2089954*est)

**Predictive control for isolated matrix rectifier without current distortion at sector boundary**

**Emiliani, Pietro; Blinov, Andrei; de Carne, Giovanni; Arena, Gabriele; Vinnikov, Dmitri** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227405>

**Quasi single-stage three-phase filterless converter for EV charging applications**

**Blinov, Andrei; Zinchenko, Denys; Rabkowski, Jacek; Wrona, Grzegorz; Vinnikov, Dmitri** IEEE Open Journal of Power Electronics 2022 / p. 51-60 : ill <https://doi.org/10.1109/OJPEL.2021.3134460> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics](#)

[at WOS](#) [Article at WOS](#)

### **Quasi-Z-source-based isolated DC/DC converters for distributed power generation**

**Vinnikov, Dmitri; Roasto, Indrek** IEEE transactions on industrial electronics 2011 / p. 192-201 : ill  
<https://ieeexplore.ieee.org/document/5409567>

### **Reduction of network harmonics using PWM-rectifiers**

Ollila, J. Тезисы докладов семинара "Новые направления научных исследований в области электромеханики" 1991 / с. 25-28.: ил

### **Series resonant DC-DC converter with an AC-switch-based full-bridge boost rectifier**

**Bakeer, Abualkasim Ahmed Ali; Chub, Andrii; Vinnikov, Dmitri** Annual IEEE Conference on Applied Power Electronics Conference and Exposition (APEC) 2021 / p. 1985-1990 <https://doi.org/10.1109/APEC42165.2021.9487113> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Series resonant DC-DC converter with single-switch full-bridge boost rectifier operating at fixed switching frequency**

**Bakeer, Abualkasim Ahmed Ali; Chub, Andrii; Vinnikov, Dmitri** 2020 IEEE 11th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), 28 Sept.-1 Oct. 2020, Dubrovnik, Croatia 2020 / p. 270-275  
<https://doi.org/10.1109/PEDG48541.2020.9244438>

### **Short-circuit fault detection and remedial in full-bridge rectifier of series resonant DC-DC converter based on inductor voltage signature**

**Bakeer, Abualkasim Ahmed Ali; Chub, Andrii; Vinnikov, Dmitri** 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 / 6 p. : ill  
<https://doi.org/10.1109/RTUCON51174.2020.9316482>

### **SiC Schottky diode for use in power convertors**

**Pikkov, Mihhail; Rang, Toomas; Pokatilo, Andrei** BEC 2006 : 2006 International Baltic Electronics Conference : Tallinn University of Technology, October 2-4, 2006, Tallinn, Estonia : proceedings of the 10th Biennial Baltic Electronics Conference 2006 / p. 245-246 : ill

### **Step-up DC/DC converters with cascaded quasi-Z-source network**

**Vinnikov, Dmitri; Roasto, Indrek; Strzelecki, Ryszard; Adamowicz, Marek** IEEE transactions on industrial electronics 2012 / p. 3727-3736 : ill <https://ieeexplore.ieee.org/document/6096410>

### **Step-Up series-resonant DC-DC converter with switched mode rectifier operating at fixed switching frequency**

**Chub, Andrii; Bakeer, Abualkasim Ahmed Ali; Vinnikov, Dmitri** 2020 IEEE 11th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), 28 Sept.-1 Oct. 2020, Dubrovnik, Croatia 2020 / p. 597-601  
<https://doi.org/10.1109/PEDG48541.2020.9244312>

### **Three-phase bidirectional isolated AC-DC matrix-converter with full soft-switching range**

**Carvalho da Silva, Edivan Laercio; Blinov, Andrei; Emiliani, Pietro; Chub, Andrii; Vinnikov, Dmitri** IEEE Access 2023 / p. 119270-119283 <https://doi.org/10.1109/ACCESS.2023.3327224> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Two new high power factor single-phase diode rectifiers using optimum ripple-power conversion [Electronic resource]**

**Sakkos, Tiiu; Sarv, Vello** EPE-PEMC 2006 : 12th International Power Electronics and Motion Control Conference : Portorož, Slovenia, August 30 - September 1, 2006 : proceedings 2006 / p. 1636-1641 : ill. [CD-ROM]  
<https://ieeexplore.ieee.org/document/4778639>

### **Two new unity power factor three-phase diode rectifiers with ripple power re-rectification and resonant filters**

**Sakkos, Tiiu; Sarv, Vello** BEC 2002 : proceedings of the 8th Biennial Baltic Electronics Conference : October 6-9, 2002, Tallinn, Estonia 2002 / p. 401-404 : ill

### **Uninterruptible power supply in distribution substations auxiliary circuits**

**Hõimoja, Hardi** 4th International Symposium Topical Problems of Education in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 15-20, 2007 2007 / p. 78-82

### **Unitary input power factor uninterruptible power supply**

Florea, Mihail; Posa, Constantin BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 235-238: ill

### **Waveform variation defined model for harmonic current emissions including cross-order supply voltage harmonics influence**

**Daniel, Kamran; Kütt, Lauri; Iqbal, Muhammad Naveed; Shabbir, Noman; Jarkovoi, Marek; Parker, Martin** IEEE Access 2023 / p. 42276-42289 : ill <https://doi.org/10.1109/ACCESS.2023.3270805> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Wide output voltage range isolated buck-boost PFC converter with reconfigurable rectifier**

**Verbytskyi, Ievgen; Nadeem, Mohammad Mahad; Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 7 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227389>

**Автоматизация формовочного процесса запаянных ртутных вентилях (игнитронов)**

**Lind, Heino** Труды по электротехнике и автоматике : сборник статей. 5 1967 / с. 55-66 : илл  
[https://www.ester.ee/record=b2182187\\*est](https://www.ester.ee/record=b2182187*est) <https://digikogu.taltech.ee/et/Item/a4d66fdf-69d6-487a-a6ee-1ffce266f2ad>

**Исследование и разработка методики расчета токов обратного зажигания в сложных одно- и многомостовых выпрямительных схемах**

**Tiigimägi, Eeli** 1958 [https://www.ester.ee/record=b1382013\\*est](https://www.ester.ee/record=b1382013*est) <https://digikogu.taltech.ee/et/Item/f1038922-ec9d-4d8e-999e-94d3512bfa6c>

**Улучшение электромагнитной совместимости дуговой сталеплавильной печи путем применения скомпенсированного токоограничивающего выпрямителя**

**Järvik, Jaan; Janson, Kuno** Проблемы преобразовательной техники : тезисы докладов III всесоюзной научно-технической конференции, Киев, октябрь 1983 г. Ч. 1 1983 / с. 29-32 [https://www.ester.ee/record=b2369116\\*est](https://www.ester.ee/record=b2369116*est)