

REFERENCES

- [1] "IEEE SA - IEEE 1159-2019," IEEE Standards Association. <https://standards.ieee.org/ieee/1159/6124/>
- [2] Bollen MH. Understanding power quality problems. In Voltage sags and Interruptions 2000 Feb. Piscataway, NJ, USA: IEEE press.
- [3] S. Arias-Guzman *et al.*, "Analysis of voltage sag severity case study in an industrial circuit," *2015 IEEE Industry Applications Society Annual Meeting*, Addison, TX, USA, 2015, pp. 1-6, doi: 10.1109/IAS.2015.7356932.
- [4] M. G. Dozein, P. Mancarella, T. K. Saha and R. Yan, "System Strength and Weak Grids: Fundamentals, Challenges, and Mitigation Strategies," *2018 Australasian Universities Power Engineering Conference (AUPEC)*, Auckland, New Zealand, 2018, pp. 1-7, doi: 10.1109/AUPEC.2018.8757997.
- [5] <https://www.saurenergy.com/solar-energy-blog/what-to-do-when-your-inverter-givesg-phase-alarm>
- [6] B. Soreng, R. Garnayak and R. Pradhan, "A Synchronous Reference Frame based PLL Control for a Grid-Tied Photovoltaic System," *2017 International Conference on Current Trends in Computer, Electrical, Electronics and Communication (CTCEEC)*, Mysore, India, 2017, pp. 1017-1022, doi: 10.1109/CTCEEC.2017.8455132.
- [7] S. Chatterjee and S. Chatterjee, "Simulation of synchronous reference frame PLL based grid connected inverter for photovoltaic application," *2015 1st Conference on Power, Dielectric and Energy Management at NERIST (ICPDEN)*, Itanagar, India, 2015, pp. 1-6, doi: 10.1109/ICPDEN.2015.7084493.
- [8] P. Rodriguez, J. Pou, J. Bergas, J. I. Candela, R. P. Burgos and D. Boroyevich, "Decoupled Double Synchronous Reference Frame PLL for Power Converters Control," in *IEEE Transactions on Power Electronics*, vol. 22, no. 2, pp. 584-592, March 2007, doi: 10.1109/TPEL.2006.890000.
- [9] M. Reyes, P. Rodríguez, S. Vázquez, A. Luna, J. M. Carrasco and R. Teodorescu, "Decoupled Double Synchronous Reference Frame current controller for unbalanced grid voltage conditions," *2012 IEEE Energy Conversion Congress and Exposition (ECCE)*, Raleigh, NC, USA, 2012, pp. 4676-4682, doi: 10.1109/ECCE.2012.6342184.
- [10] C. Kalaivani and K. Rajambal, "Grid Integration of Three-phase Inverter using Decoupled Double Synchronous Reference Frame PLL," *2019 International Conference on Computation of Power, Energy, Information and Communication (ICCPEIC)*, Melmaruvathur, India, 2019, pp. 221-226, doi: 10.1109/ICCPEIC45300.2019.9082386.
- [11] IEEE 1547-2018: IEEE Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces

- [12] IEC 61727:2004: Photovoltaic (PV) systems - Characteristics of the utility interface
- [13] DIN VDE V 0126-1-1:2013-08: Automatic disconnection device between a generator and the public low-voltage grid
- [14] M. H. J. Bollen and R. A. A. de Graaff, "Behavior of AC and DC drives during voltage sags with phase-angle jump and three-phase unbalance," *IEEE Power Engineering Society. 1999 Winter Meeting (Cat. No.99CH36233)*, New York, NY, USA, 1999, pp. 1225-1230 vol.2, doi: 10.1109/PESW.1999.747388.
- [15] J. C. Gomez, M. M. Morcos, C. A. Reineri and G. N. Campetelli, "Behavior of induction motor due to voltage sags and short interruptions," in *IEEE Transactions on Power Delivery*, vol. 17, no. 2, pp. 434-440, April 2002, doi: 10.1109/61.997914.
- [16] D. Zhang and T. Liu, "Effects of voltage sag on the performance of induction motor based on a new transient sequence component method," in *CES Transactions on Electrical Machines and Systems*, vol. 3, no. 3, pp. 316-324, Sept. 2019, doi: 10.30941/CESTEMS.2019.00042.
- [17] H. Beig, S. Nema and S. K. Gawre, "Power Quality Issues and Mitigation approaches for modern power scenarios: encapsulation," 2020 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS), Bhopal, India, 2020, pp. 1-6, doi: 10.1109/SCEECS48394.2020.70.
- [18] IEEE 1100-2005: IEEE Recommended Practice for Powering and Grounding Electronic Equipment
- [19] P. Rodríguez, A. Timbus, R. Teodorescu, M. Liserre and F. Blaabjerg, "Reactive Power Control for Improving Wind Turbine System Behavior Under Grid Faults," in *IEEE Transactions on Power Electronics*, vol. 24, no. 7, pp. 1798-1801, July 2009, doi: 10.1109/TPEL.2009.2014650.
- [20] Chen Q, Fan X, Zhang P, Fanl C. Flexible positive and negative sequence current control method and equivalent sequence network model for inverting distributed power supply [J]. *Power System Protection and Control*. 2018;46(14):57-62.
- [21] Hossain MI, Abido MA. Positive-negative sequence current controller for LVRT improvement of wind farms integrated MMC-HVDC network. *IEEE Access*. 2020 Oct 20;8:193314-39.
- [22] P. Rodriguez, A. Luna, J. R. Hermoso, I. Etxeberria-Otadui, R. Teodorescu and F. Blaabjerg, "Current control method for distributed generation power generation plants under grid fault conditions," *IECON 2011 - 37th Annual Conference of the IEEE Industrial Electronics Society*, Melbourne, VIC, Australia, 2011, pp. 1262-1269, doi: 10.1109/IECON.2011.6119490.
- [23] M. Reyes, P. Rodriguez, S. Vazquez, A. Luna, R. Teodorescu and J. M. Carrasco, "Enhanced Decoupled Double Synchronous Reference Frame Current Controller for Unbalanced Grid-Voltage Conditions," in *IEEE Transactions on Power Electronics*, vol. 27, no. 9, pp. 3934-3943, Sept. 2012, doi: 10.1109/TPEL.2012.2190147.

[24] IEEE 446-1995 IEEE Recommended Practice for Emergency and Standby Power Systems for Industrial and Commercial Applications

[25] I. Ali, M. A. Aftab and S. M. S. Hussain, "Performance comparison of IEC 61850-90-5 and IEEE C37.118.2 based wide area PMU communication networks," in *Journal of Modern Power Systems and Clean Energy*, vol. 4, no. 3, pp. 487-495, July 2016, doi: 10.1007/s40565-016-0210-y.

[26] D. D. Sabin and M. H. J. Bollen, "Overview of IEEE Std 1564-2014 Guide for Voltage Sag Indices," *2014 16th International Conference on Harmonics and Quality of Power (ICHQP)*, Bucharest, Romania, 2014, pp. 497-501, doi: 10.1109/ICHQP.2014.6842753.

[27] IEC TR 61000-3-14:2011 Electromagnetic compatibility (EMC) - Part 3-14: Assessment of emission limits for harmonics, interharmonics, voltage fluctuations and unbalance for the connection of disturbing installations to LV power systems