

DAFTAR PUSTAKA

- [1] J. Bester, B. Groenewald, and R. Wilkinson, “Electrical power system for a 3U CubeSat nanosatellite incorporating peak power tracking with dual redundant control,” *Prz. Elektrotechniczny*, vol. 88, no. 4 A, pp. 300–304, 2012
- [2] S. A. Kimura, H. Wijanto, Edwar, F. F. Arribat Rafsanjani, H. Prananditiya, and A. A. Ichwan, “Development of the Electronic Power Subsystem Design for Tel-USat”, Proc. - 2019 IEEE Int. Conf. Signals Syst. ICSigSys 2019, no. 1, pp. 120–125, 2019, doi: 10.1109/ICSIGSYS.2019.8811038.
- [3] E. Howell, “Cubesats: Tiny Payloads, huge benefits for space research,” *Space.com*, 19-Jun-2018. [Online]. Available: <https://www.space.com/34324-cubesats.html>. [Accessed: 17-Oct-2022].
- [4] F. F. A. Rafsanjani, “Rancang Bangun purwarupa electrical power system Untuk Satelit Nano dalam Skala Laboratorium,” *Open Library*, 01-Jan-1970. [Online]. Available: <https://openlibrary.telkomuniversity.ac.id/home/catalog/id/138124/slug/rancang-bangun-purwarupa-electrical-power-system-untuk-satelit-nano-dalam-skala-laboratorium.html>. [Accessed: 22-Oct-2022].
- [5] F. F. A. Rafsanjani, B. Syihabuddin, E. Edwar, and H. Wijanto, “Analisis Pengaturan Sistem Catu Daya Pada Satelit Nano”, *INFOTEL*, vol. 9, no. 3, pp. 285–292, Aug. 2017.
- [6] A. Yusuf and G. S. Prabowo, “Bench model design of the electrical power system for Iinusat-1 NanoSatellite,” Proceeding - COMNETSAT 2012 2012 IEEE Int. Conf. Commun. Networks Satell., pp. 182–186, 2012, doi: 10.1109/ComNetSat.2012.6380802
- [7] A. Edpuganti, V. Khadkikar, H. Zeineldin, M. S. Elmoursi, and M. Al Hosani, “Comparison Study of Electric Power System Architectures for CubeSat,” 2020 IEEE Int. Conf. Power Electron. Smart Grid Renew. Energy, PESGRE 2020, pp. 1–6, 2020, doi: 10.1109/PESGRE45664.2020.9070355.
- [8] M. Oredsson, “Electrical power system for the CubeSTAR nanosatellite,” *Univ. Oslo*, 53 no. September, pp. 1–254, 2010, [Online]. Available: https://core.ac.uk/download/pdf/30841128.pdf%0Ahttps://www.duo.uio.no/bitstream/handle/10852/11002/Electrical_Power_System_for_the_CubeSTAR_Nanosatellite.pdf?sequence=1
- [9] A. Weber, “CANOP 3U CubeSat Electrical Power System: Power Tests,” *Proceedings of the Wisconsin Space Conference*, vol. 1, no. 1, 2019.

- [10] L. Kessler Slongo, S. Vega Martínez, B. Vale Barbosa Eiterer, and E. Augusto Bezerra, “Nanosatellite Electrical Power System Architectures: Models, simulations, and tests,” *International Journal of Circuit Theory and Applications*, vol. 48, no. 12, pp. 2153–2189, 2020.
- [11] A. Edpuganti, V. Khadkikar, M. S. Moursi, H. Zeineldin, N. Al-Sayari, and K. Al Hosani, “A comprehensive review on CubeSat Electrical Power System Architectures,” *IEEE Transactions on Power Electronics*, vol. 37, no. 3, pp. 3161–3177, 2022.
- [12] S. Song, H. Kim, and Y.-K. Chang, “Design and implementation of 3U CubeSat Platform Architecture,” *International Journal of Aerospace Engineering*, 24-Dec-2018. [Online]. Available: <https://www.hindawi.com/journals/ijae/2018/2079219/>. [Accessed: 24-Dec-2022].
- [13] Li Siguang and Zhang Chengning, “Study on Battery Management System and Lithium-Ion Battery,” *2009 International Conference on Computer and Automation Engineering*, pp. 218–222, 2009.
- [14] G. Qiang and C. Xiusheng, “Research on Battery Identification of Electric Vehicle Battery Management System,” *2010 International Conference on Computational and Information Sciences*, Chengdu, 2010, pp. 928-931
- [15] R. Ravikumar, S. Ghatge, R. Soni, and J. Nadar, “Design of Battery Management System,” *2020 IEEE Pune Section International Conference (PuneCon)*, pp. 48–49, 2020.
- [16] P. Gupta and K. S. Sandhu, “Performance analysis of solar panel under different operating conditions,” *2019 3rd International conference on Electronics, Communication and Aerospace Technology (ICECA)*, 2019.
- [17] M. Al Radi, M. M. Hassan, M. A. Ahmed, and C. Ghenai, “Design of CubeSat solar power system for real-time tracking of Sharjah Vessel,” *2020 Advances in Science and Engineering Technology International Conferences (ASET)*, 2020.
- [18] R. Pratama, “Pengembangan Sistem Akuisisi Data Arus, TEGANGAN, Daya Dan Temperatur Pada Pembangkit Listrik Tenaga Surya,” *Jurnal Edukasi Elektro*, vol. 3, no. 2, 2020.
- [19] ESA, “Types of orbits,” pp. 1–10, 2020.
- [20] <https://www.electronics-project-design.com/PCB-Design.html>
- [21] Dragulinescu, A. and Claudia Dragulinescu, A.-M. (2020) “Solar cell types and technologies with applications in energy harvesting,” *2020 IEEE 26th International*

- Symposium for Design and Technology in Electronic Packaging (SIITME) [Preprint]. Available at: <https://doi.org/10.1109/siitme50350.2020.9292186>.
- [22] D. N. S., “Analysis of high performance MPPT controllers for Solar Photovoltaic System,” *International Journal of Psychosocial Rehabilitation*, vol. 24, no. 5, pp. 12–29, 2020.
- [23] Texas Instrument, “LM1577 / LM2577 Series SIMPLE SWITCHER Step-Up Voltage Regulator LM1577 / LM2577 Series SIMPLE SWITCHER ® Step-Up Voltage 54 Regulator,” no. June 1999
- [24] L. T. Corporation, “Charger for Solar Power,” vol. 4, pp. 1–26, 2010.
- [25] Texas Instrument, “LM2596 Simple Switcher Power Converter 150-kHz 3-A StepDown Voltage Regulator,” no. 1, pp. 1–45, 2020.
- [26] Fortune Semiconductor Corporation, “Datasheet DW01A One Cell Lithium-ion/Polymer Battery Protection IC”, no.1, pp. 5, 2009
- [27] HYCON Technology Corp., “HY2213 Datasheet 1 Cell Li-ion/Polymer Battery Charge Balance IC”, no.1, pp. 8, 2015
- [28] Jiang, L. et al. (2020) “Comparison of monocrystalline and polycrystalline solar modules,” 2020 IEEE 5th Information Technology and Mechatronics Engineering Conference (ITOEC) [Preprint]. Available at: <https://doi.org/10.1109/itoec49072.2020.9141722>.
- [29] P. Reza, “Pengujian Karakterisasi Panel Surya Berdasarkan Intensitas Tenaga Surya,” no. 2015, pp. 1–22, 2014, [Online]. Available: http://eprints.ums.ac.id/36754/22/NASKAH_PUBLIKASI.pdf.
- [30] Luo, F.L. (2011) “Design of solar-panel energy system,” *2011 6th IEEE Conference on Industrial Electronics and Applications* [Preprint]. Available at: <https://doi.org/10.1109/iciea.2011.5975976>.
- [31] TMP9A00-EP ± 2.5 °C low-power, analog out temperature sensor ... - ti.com, <https://www.ti.com/lit/ds/symlink/tmp9a00-ep.pdf> (accessed May 27, 2023).
- [32] Panasonic NCR18650B - IMRBatteries.com, https://www.imrbatteries.com/content/panasonic_ncr18650b-2.pdf (accessed Jun. 6, 2023).

[33] TPS22966-Q1 dual-channel, ultralow resistance load switch datasheet ..., <https://www.ti.com/lit/ds/symlink/tps22966-q1.pdf> (accessed Jul. 20, 2023).