REFERENSI

[1] "Parlementaria Terkini - Dewan Perwakilan Rakyat." https://www.dpr.go.id/berita/detail/id/28352/t/Pembelajaran+Jarak+Jauh (accessed Jul. 02, 2022).

[2] A. Luque and S. Hegedus, *Handbook of Photovoltaic Science and Engineering*, 2nd ed. Chichester: Wiley, 2011.

[3] Greenmatch, "Types of Solar Panels (2021) | GreenMatch." https://www.greenmatch.co.uk/blog/2015/09/types-of-solar-panels (accessed Oct. 08, 2021).

[4] A. Energy, "Solar Cell I-V Characteristic and the Solar Cell I-V Curve." https://www.alternative-energy-tutorials.com/photovoltaics/solar-cell-i-v-characteristic.html (accessed Oct. 10, 2021).

[5] W. Hart Danial, *Power Electronics*. New York: McGraw-Hill, 2011.

[6] H. Fan, "Design Tips For An Efficient Non-Inverting Buck-Boost Converter," *Analog Appl. J.*, vol. 3, pp. 20–25, 2015, [Online]. Available: https://www.ti.com/lit/an/slyt584/slyt584.pdf?ts=1607342904526&ref_url=https%253A%252F%252Fwww.google.com%252F.

[7] S. M. Hidayat, "Rancang Bangun BuckBoost Konverter," Universitas Indonesia, Jakarta, 2010.

[8] H. Rahimi-Eichi, U. Ojha, F. Baronti, and M. Y. Chow, "Battery management system: An overview of its application in the smart grid and electric vehicles," *IEEE Ind. Electron. Mag.*, vol. 7, no. 2, pp. 4–16, 2013, doi: 10.1109/MIE.2013.2250351.

[9] J. V. Barreras, C. Pinto, R. De Castro, E. Schaltz, S. J. Andreasen, and R. E. Araújo, "Multi-objective control of balancing systems for li-ion battery packs: A paradigm shift?," *2014 IEEE Veh. Power Propuls. Conf. VPPC 2014*, no. October, 2014, doi: 10.1109/VPPC.2014.7007107.

[10] I. Buchmann, *Batteries in a Portable World*, 3rd ed. Cadex Electronics Inc., 2011.

[11] Battery University, "BU-302: Series and Parallel Battery Configurations - Battery University," Jun. 18, 2019. https://batteryuniversity.com/article/bu-302-series-and-parallel-battery-configurations (accessed Oct. 19, 2021).

[12] Battery University, "BU-409: Charging Lithium-ion - Battery University." https://batteryuniversity.com/article/bu-409-charging-lithium-ion (accessed Oct. 20, 2021).

[13] Amazon, "Amazon.com: DAOKI 5Pcs Dual USB Step-Down Power Module LM2596

Double USB Step-Down Converter Module DC 6V-40V to 5V 3A Double USB Charge DC-DC 9V/12V/24V/36V to 5V USB 3A : Electronics." https://www.amazon.com/DAOKI-Module-LM2596-Step-Down-Converter/dp/B07XD35FHR (accessed Oct. 21, 2021).

[14] T. Instruments, "Datasheet LM2596 SIMPLE SWITCHER ® Power Converter 150-kHz 3-A Step-Down Voltage Regulator," 2021.

[15] Elang Sakti, "Sudah Tahu Cara Kerja, Skema, dan Jalur Port USB? - Elang Sakti." https://www.elangsakti.com/2013/03/sudah-tahu-cara-kerja-skema-dan-jalur.html (accessed Oct. 21, 2021).

[16] L. Balogh, "Fundamentals of MOSFET and IGBT Gate Driver Circuits Application Report Fundamentals of MOSFET and IGBT Gate Driver Circuits," no. October, pp. 1–48, 2017, [Online]. Available: www.ti.com.

[17] International Rectifier, "Datasheet Gate Driver Ir2110," *Www.Irf.Com*, vol. 2110, pp. 1–18, 2007, [Online]. Available: https://www.infineon.com/cms/en/product/power/gate-driver-ics/ir2110/.

[18] "INA219 Current Sensor Module Pinout, Interfacing with Arduino and OLED." https://microcontrollerslab.com/ina219-current-sensor-module-pinout-interfacing-with-arduino-oled/ (accessed Jun. 12, 2022).

[19] "INA219 Current and Power Sensor • Wolles Elektronikkiste." https://wolles-elektronikkiste.de/en/ina219-current-and-power-sensor (accessed Jun. 13, 2022).

[20] W. A. Jabbar, W. K. Saad, Y. Hashim, N. B. Zaharudin, and M. F. Bin Zainal Abidin, "Arduino-based Buck Boost Converter for PV Solar System," *2018 IEEE 16th Student Conf. Res. Dev. SCOReD 2018*, pp. 12–17, 2018, doi: 10.1109/SCORED.2018.8710807.

[21] D. Ranggah and A. Kusumaningrum, "Penggunaan Buck Boost Converter Pada Sistem Battery Charging Terkendali Mikrokontroler Bersumber Solar Cell," Institut Teknologi Sepuluh Nopember, 2016.

[22] M. N. H. Lubudi, "Rancang Bangun Battery Management System Active Balancing Pada Baterai Li-Ion 12V 2 ,5Ah," Universitas Islam Indonesia, 2020.

[23] M. Z. Aihsan *et al.*, "Solar Powered Multiple Output Buck Converter," *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 932, no. 1, pp. 1–8, 2020, doi: 10.1088/1757-899X/932/1/012075.