

GLOSSARY

- 11. Short Circuit Current (I_{sc}):** The current flowing through a solar panel when the voltage across it is zero.
- 12. Solar Array:** A grouping or arrangement of solar panels/modules.
- 13. Solar Energy:** Radiant light and heat from the sun that is harnessed using various technologies to generate electricity or thermal energy.
- 14. Solar Farm:** A large-scale installation of solar panels/modules designed to generate electricity for commercial use.
- 15. Solar Panel/Module:** A collection of interconnected solar cells designed to absorb sunlight and convert it into electricity.
- 16. Solar Tracker:** A device that adjusts the orientation of solar panels to follow the sun's path, maximizing sunlight absorption throughout the day.
- 17. Specific Gravity:** The density of a substance compared to the density of water, often used to measure the state of charge of batteries in solar systems.
- 18. Off-Grid System:** An independent solar power system that operates separately from the main electrical grid, often using batteries to store excess energy for later use.
- 19. Maximum Power Point Tracking (MPPT):** Technology that optimizes the power output of solar panels by continuously adjusting the electrical operating point for maximum efficiency.
- 20. Universal Connectors (e.g., MC₄):** Connectors compatible with various solar panels, facilitating their electrical connections.