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(57) Abstract :

HYBRID CHARGER FOR RELIABLE AND CONTINUOUS POWER SUPPLY USING SOLAR AND WIND ENERGY ABSTRACT The present invention relates to a hybrid charger designed to provide continuous and reliable power for electronic devices by harnessing both solar and wind energy. The system integrates a solar panel that converts sunlight into electrical energy and a wind-powered dynamo that generates electricity from wind, ensuring a consistent power supply in variable environmental conditions. A charge controller regulates the energy flow from both sources, preventing overcharging, while a lithium-ion battery stores the harvested energy. A DC booster further enhances the system by upscaling the stored energy for compatibility with a variety of devices. This dual-source charging solution is especially suitable for outdoor activities and vehicles such as bicycles, offering a reliable power supply in remote and off-grid locations. The hybrid charger enhances energy security, making it ideal for camping, hiking, and emergency scenarios where access to conventional power sources is limited.

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