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(57) Abstract :

The present disclosure relates to a personalized solar electric vehicle (EV) charging system (10) integrates a solar powered charging station (12) with a thermal insulation layer (14) to prevent vehicle heat-up during charging. The system (10) features a hybrid energy source switch (16), enabling operation using solar energy or public electric supply. An energy storage unit (18) stores excess energy from the charging station (12) for domestic and commercial use. The charging station (12) is equipped with connectors (20) compatible with two-wheelers, three-wheelers, and four-wheelers. Additionally, a protective shelter (22) offers coverage for vehicles during charging, and an interface (24) in the energy storage unit (18) connects to domestic and commercial circuits. Integrated security mechanisms (26) enhance vehicle security during parking and charging. The system (10) is designed for varied installations, including residential complexes and parking areas.

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