

Solar power generation and charging assistant



Overview

- Charges your EV using only excess solar energy (Solar Surplus mode) □
- Balances charging between EV and home battery (Priority Balancer) □
- Automates overnight charging based on solar forecast (Night Smart Charge) □
- Runs manual boost sessions with auto-stop on EV SOC.

Solar power generation and charging assistant



[Solar-Powered EV Charging with OpenEVSE and](#)

By linking your EV charger with your home automation system, you can optimise charging times to utilise surplus solar power. This not only reduces

[Dynamic Electric Car Charging with Solar Power and Home Assistant](#)

This is how my fully automated Electric Car charging with Solar Power works: I'm



[A1 SolarStore: #1 Marketplace for Solar and Home Energy Solutions.](#)

A1 SolarStore delivers home essentials solutions across the U.S., Caribbean and EU, backed by 300+ 5-star reviews and excellent Trustpilot ratings. Reliable store for solar. A few stray

[SunPower - Powering a Brighter Future . SunPower\(R\)](#)

We provide residential solar, battery storage, and custom solutions for homes, built to last with quality and backed by decades of solar expertise.



[Solar energy , Definition, Uses, Examples, Advantages, & Facts](#)



Solar energy is radiation from the Sun that is capable of producing heat, causing chemical reactions, or generating electricity. The total amount of solar energy incident on Earth is vastly in

[How Much Do Solar Panels Cost? \(2026\) . ConsumerAffairs\(R\)](#)

Solar installation costs vary significantly by location due to differences in labor rates, local incentives, permitting fees and electricity prices. The national average is around \$20,000.



GitHub

Intelligent EV charging automation for Home Assistant - Maximize solar energy usage, optimize

Solar Panel Installation in Santa Cruz

At Allterra Solar, we combine local knowledge with top-tier technology to deliver solar energy solutions that work for your home-and your budget. As a trusted solar provider, we've been installing



[Energy Autonomy: Home Assistant Solar Battery](#)

This article delves into how advanced solar and battery management, empowered by a robust open-source platform like Home

Solar Energy

There are two main types of solar energy technologies-photovoltaics (PV) and concentrating solar-thermal power (CSP). On this page you'll find resources to learn what solar



? EV Smart Charger

EV Smart Charger dynamically manages EV charging current based on your energy flow, PV forecast, and home battery state. It introduces four main charging profiles, each with adjustable

[Smarter Solar-Surplus EV Charging with Home](#)

With Home Assistant and an Easee charger, you'll build a fully local, highly customizable surplus-charging brain that pauses when solar dips,



[Generating Electricity at Home: Solar Basics , SCE](#)

By installing solar panels, you can generate your own clean, renewable energy, reducing your reliance on the grid and lowering your electricity bills. Trying to save money on your energy bill? Interested in

Solar energy

Solar technologies are categorized as either passive or active depending on the way they capture, convert and distribute sunlight and enable solar energy to be harnessed at different levels around the





Solar Kits

Shop our selection of complete solar kits and bundles for off-grid, hybrid, grid-tie, and mobile solar systems. Choose from top brands like EG4 Systems, Victron Systems, and Schneider Systems.

Contact Us

For off-grid system quotes, technical support, or partnerships, please visit:
<https://www.kephamatraining.co.za>