



CanadianSolar

EP CUBE

All-in-one
energy storage
solution



Smart energy storage for every home

EP Cube is an intelligent, flexible and reliable all-in-one home energy storage and management solution. Compatible with new and existing solar setups, it helps you store solar energy, stay protected during power outages and take control of your energy bills, bringing greater comfort to everyday life while reducing your carbon footprint.

Benefits



Cost-saving

- All-in-one design saves installation time and costs.
- Automatically optimizes energy generation and consumption.



Flexible and convenient

- Modular battery makes transport and installation easy.
- Capacity options from 5 kWh to 40 kWh.*



Safe and reliable battery

- LFP technology.
- Meets highest certification standards.
- IP67 protection.**



Perfect compatibility

- Compatible with existing and newly installed PV systems.
- Allows up to 16-17 A_{DC} PV input per MPPT.
- Compatible with EV chargers.



Intelligent management

- Monitors generation, storage and consumption of electricity in real time.
- Automatic weather alerts help actively manage stored capacity.
- OTA (Over-The-Air) firmware upgrade.



Smart Home and VPP-Ready

- Optimized energy use and cost saving through smart connection and decisions.
- Virtual Power Plant integration as additional use-cases and revenue stream for customers.



* Up to 200 kWh when connecting 5 EP Cube Three-Phase units in parallel.

** The battery modules feature an IP67 protection. The inverter features an IP65 protection.

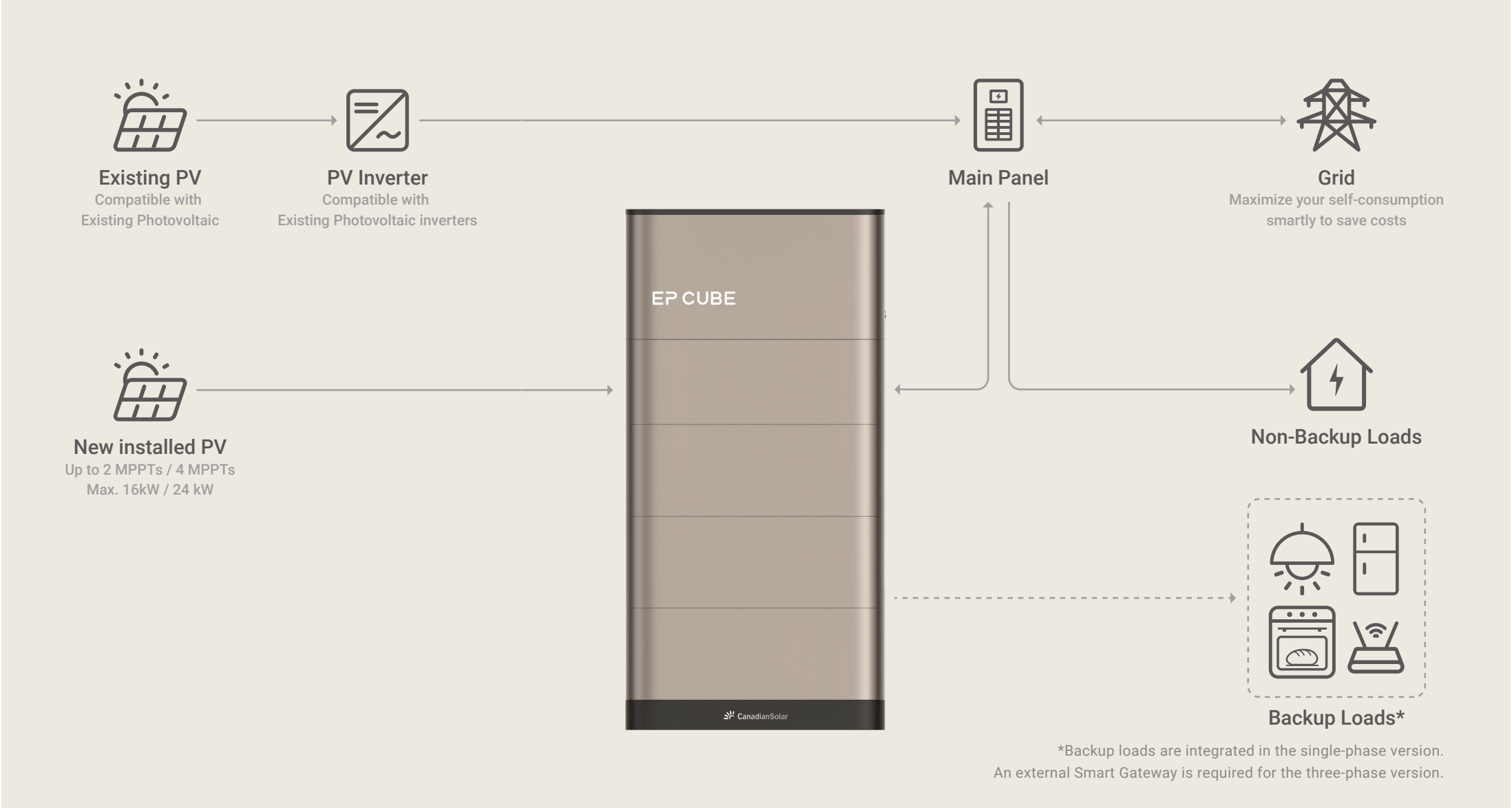
Energy, efficiency, and elegance in one system

EP Cube integrates the hybrid inverter and battery into a single, compact unit, reducing installation time and costs. Store and use green electricity, lower reliance on the grid, cut CO₂ emissions, and save on energy bills, all in a sleek, modern design. The ultimate solution for residential and commercial projects seeking smart, sustainable energy.



How does it work

The EP Cube considers the energy needs of users from different perspectives: generation, storage and consumption. In this way, users can store and use clean energy efficiently, reduce grid dependency, save money and reduce carbon emissions.

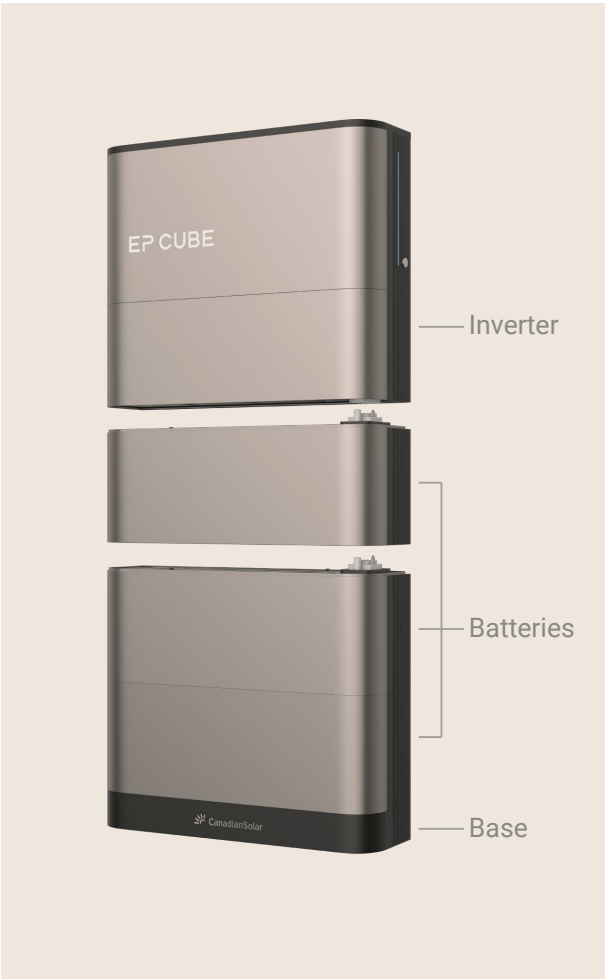


A complete solution with unrivalled flexibility

The EP Cube storage system aesthetically and compactly integrates a hybrid inverter, EPS functionality and lightweight, stackable battery modules via plug & play connectors. Each module has a capacity of up to 5 kWh and weighs less than 42 kg, making it easy to transport, handle and install.

The minimum capacity of the single-phase EP Cube is 5 kWh, with the option of stacking modules up to 20 kWh. The minimum capacity of the three-phase EP Cube is 10 kWh, with the option of stacking modules up to 40 kWh* per system.

Furthermore, the inverter can also be operated without batteries. This flexibility offers a wide range of possibilities for every household.

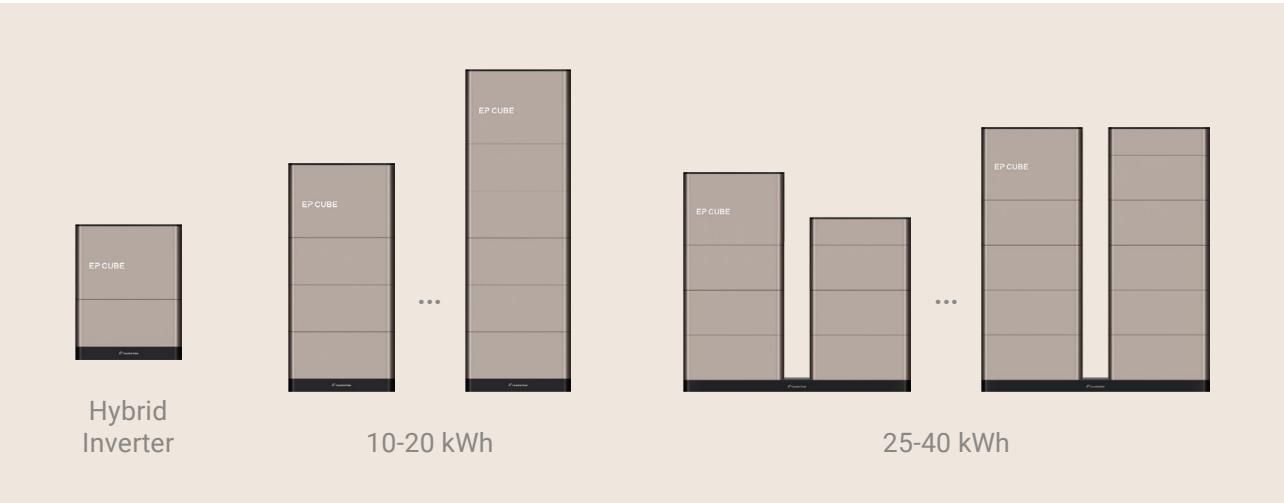


* Up to 200 kWh when connecting 5 EP Cube Three-Phase units in parallel.
Note: These data are rounded. Please refer to the technical specifications.

Single-phase version



Three-phase version



Safe and reliable

EP Cube features lithium iron phosphate (LiFePO₄) battery technology for enhanced safety, reliability, and long-term performance. IEC-certified and IP67-rated, it comes with a 15-year battery warranty.

Safer and more reliable with multiple quality guarantees. Our strict quality controls ensure one of the safest and most reliable storage solutions on the market.

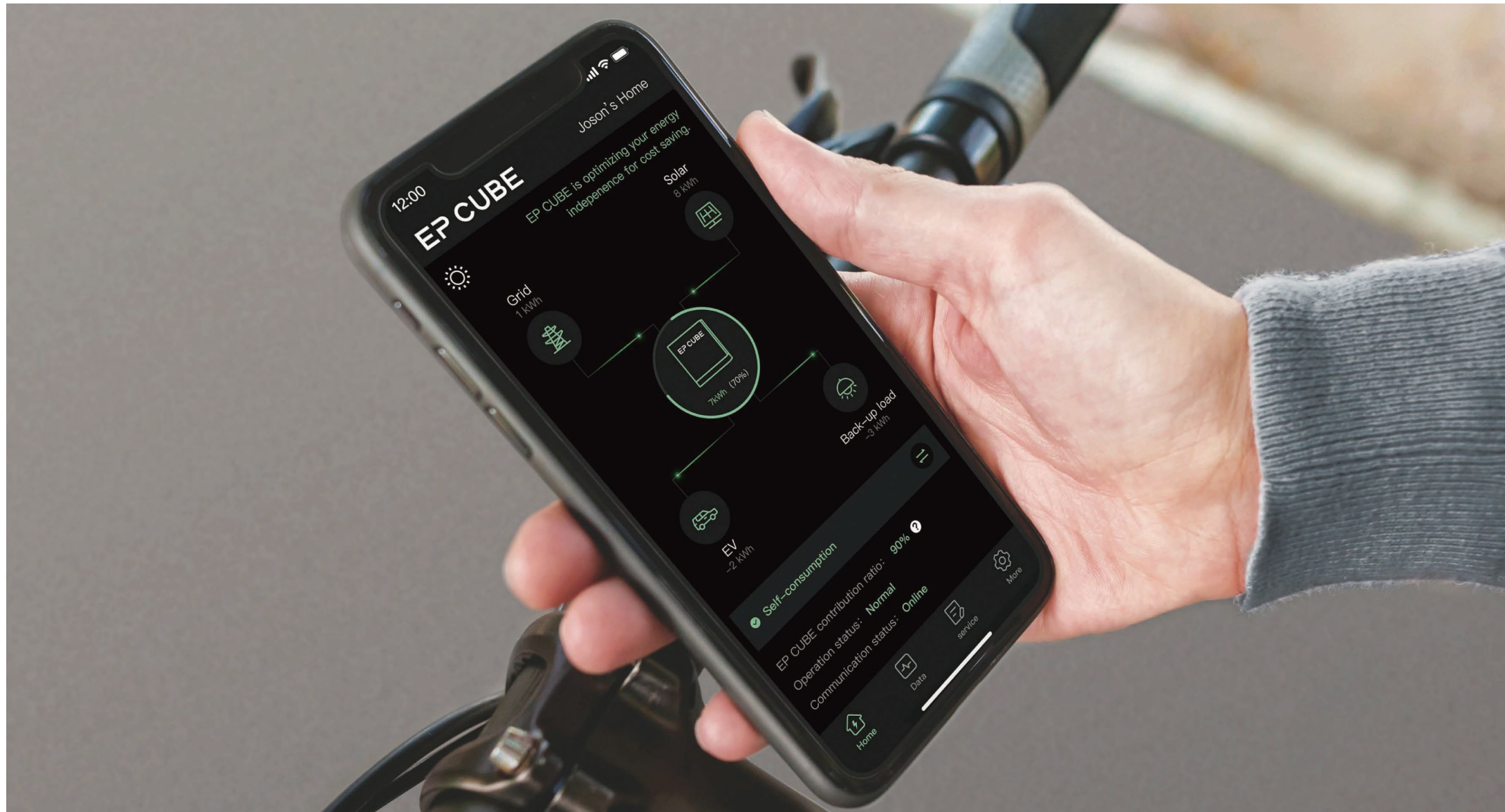


*Image for marketing purposes only. Please refer to official installation guidelines for accurate product use and setup.



Perfect compatibility

With 2-4 MPPTs and an input current of 16/17A per MPPT, the EP Cube is compatible with high power modules, microinverters, optimizers and EV chargers. Furthermore, it can be integrated into both a new and an existing PV installation.



Intelligent management

The EP Cube supports Ethernet and WiFi connection. Through the EP Cube App, the user can remotely manage the system's operating mode, minimising energy costs, and monitor the storage status in real time, thus optimising self-consumption. Moreover, the system also allows OTA (Over-The-Air) firmware updates, ensuring optimal operation.

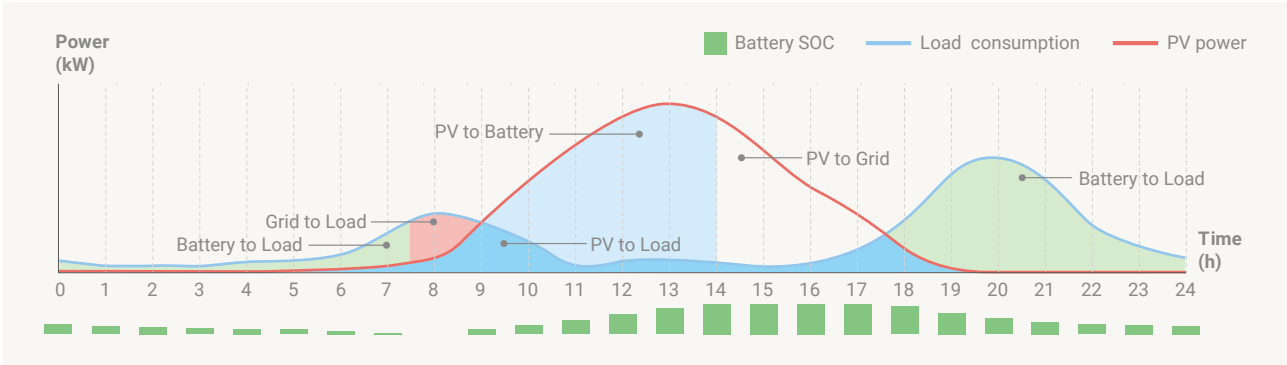
Your Smart Home with EP Cube

Make the most of your energy with intelligent automation. EP Cube automatically adapts to solar production, electricity prices and your household's energy needs to maximize self-consumption, reduce energy costs and bring greater comfort to everyday life. With Virtual Power Plant (VPP) compatibility, it can also connect to the grid to unlock additional value while supporting a more sustainable energy system.



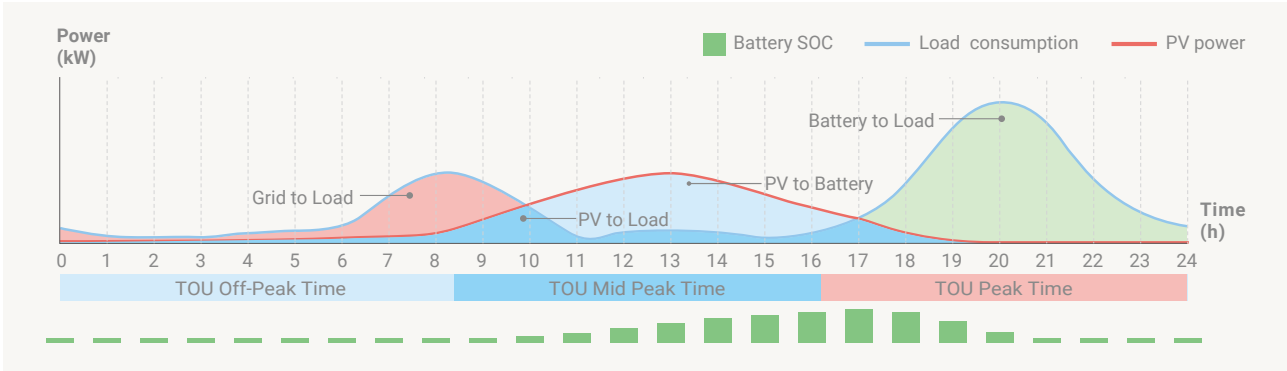
Self-consumption mode

Self-consumption mode maximises the use of green energy. Store surplus solar energy in the battery during the day and use it when solar power is not sufficient to maximise the use of renewable energy.



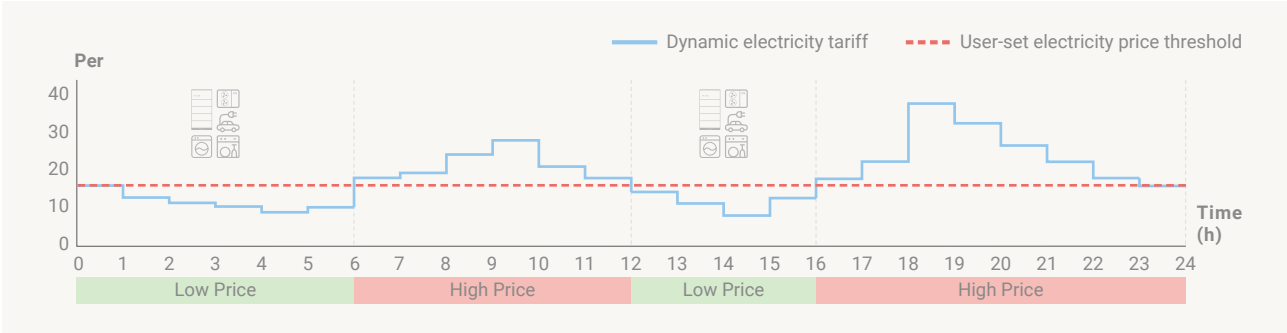
Time-of-use mode

Time-of-use mode is best for users on electricity tariffs. The user can configure up to three peak, mid-peak and off-peak periods in the application to reduce consumption from the grid during peak hours and charge the battery during off-peak hours. This results in significant cost savings.



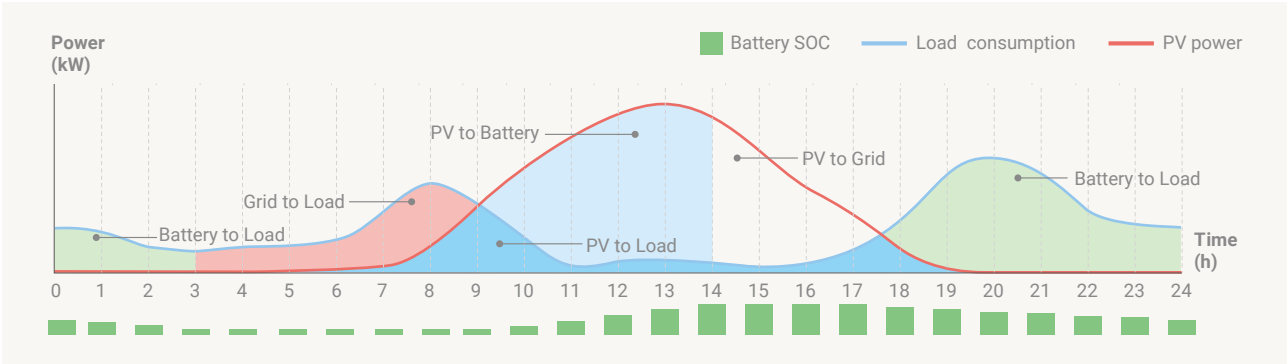
Dynamic Tariff

Benefit from lower electricity prices automatically. When rates drop below your set threshold, EP Cube charges your battery or powers appliances at the best time, helping you save costs every day.



Back-up mode*

Backup mode allows the EP Cube to be used as emergency backup power. Ensures that the batteries are charged to supply power in the event of power outages. Weather monitoring option is available to cope with extreme weather conditions that may cause a power outage.



* Feature integrated in Single-phase version. For Three-phase version, an external Smart Gateway is needed.



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