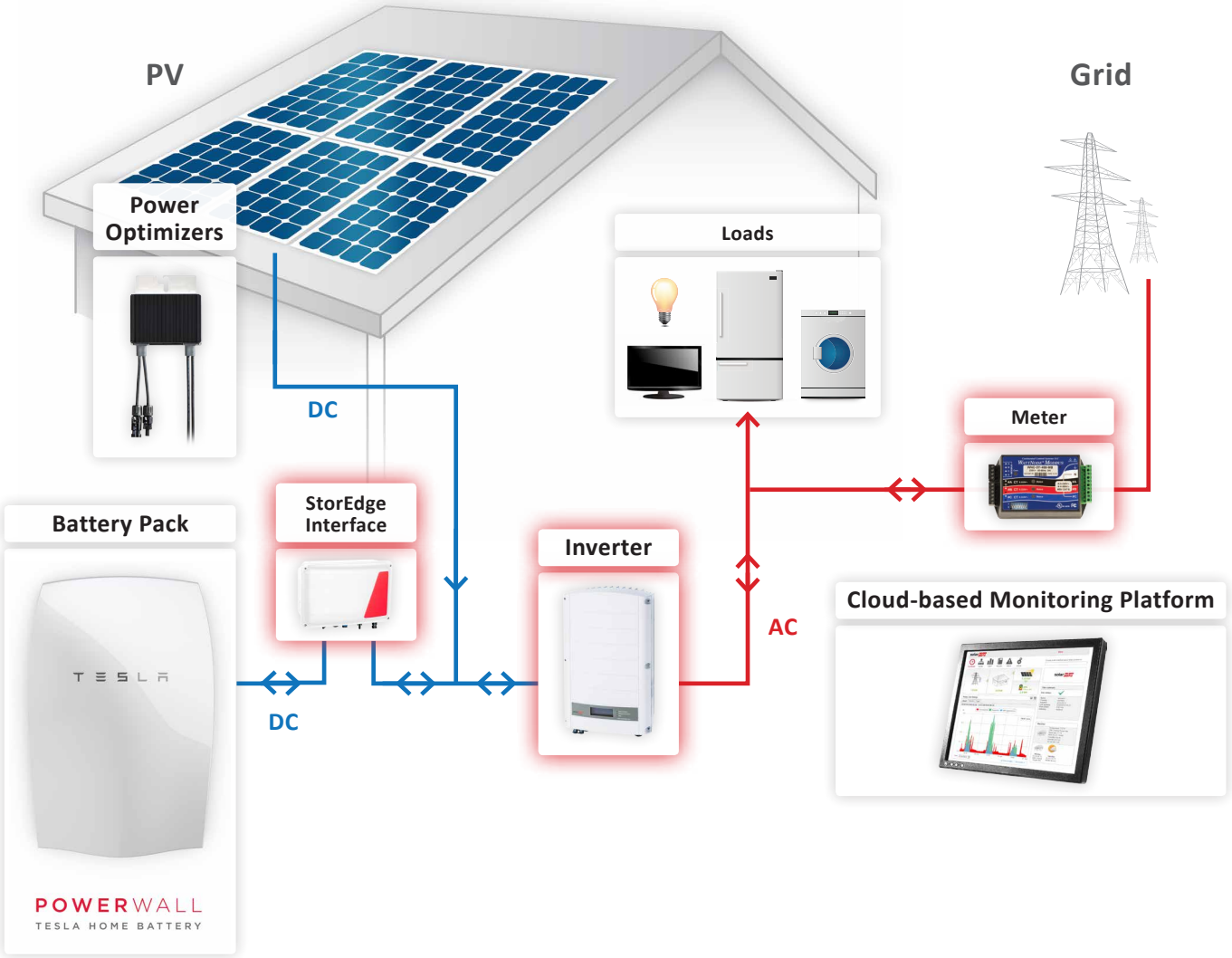
StorEdge™: Optimizing Self-Consumption

SolarEdge's StorEdge™ DC coupled storage solution allows home owners to maximize self-consumption and to enable energy independence. Unused PV power is stored in a battery and used when needed to maximize self consumption. The solution is based on a single inverter for both PV and storage. Existing SolarEdge systems can be upgraded to the StorEdge™ solution.



1 More Energy

DC coupled solution allows high system efficiency

PV power is stored directly in the battery

No additional conversions from AC to DC and back to AC

Module-level power optimization for more power harvesting

2 Simple Design & Installation

A single inverter for both PV and on-grid storage

Outdoor installation allows flexibility in battery location

No special wires are required → utilize the same PV cables

No high voltage & current during installation and maintenance

3 Enhanced Safety

PV array and battery voltage designed to reduce to safe voltage upon AC shut down

Compliance with VDE 2100-712

4 Full Visibility

Monitor the battery status, PV production, and self-consumption data

Smarter energy consumption to reduce electricity bill

5 Easy Maintenance

Remote access to inverter/battery software

Easy access to the inverter during maintenance (outdoor installation)

The SolarEdge StorEdge™ solution is based on the SolarEdge inverter and the SolarEdge Meter. It is compatible with the Tesla Powerwall Home Battery via the StorEdge Interface.

SolarEdge Inverter

The SolarEdge inverter manages battery and system energy, in addition to its traditional functionality as a DC-optimized PV inverter

SolarEdge Meter

For battery integration and for production / consumption readings for Feed-in Limitation

StorEdge™ Interface

Simple installation and connectivity

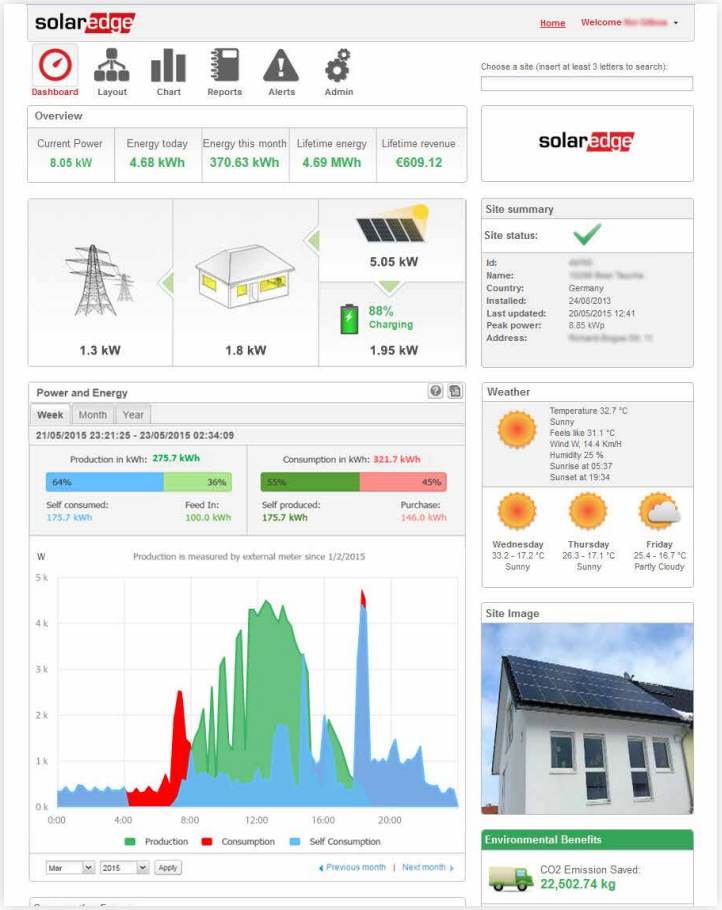
Existing systems can be upgraded

Designed to eliminate DC voltage and current during installation, maintenance, or firefighting

Tesla Powerwall Home Battery

7kWh, ideal for maximizing self-consumption

High-voltage, high-efficiency DC coupled battery



Dashboard from the SolarEdge cloud-based monitoring platform