

SHARP

Sharp Solar Energy System



Energy production



Energy storage



Good bye, rising energy costs.

Electricity costs continue to rise – but now you can do something about it. **/This is Why** Sharp offers the Solar Energy System including a photovoltaic system and an all-in-one battery solution to keep energy costs down, maximising independence.

Welcome, Solar Energy System.

The best components from two top brands for the highest quality standards.

The driving force of your system – Sharp solar modules

Sharp is a multi-award winning photovoltaic pioneer with over 50 years' experience and is one of the leading manufacturers of solar modules. 10 million reliable, operational Sharp PV modules made in UK are in use worldwide and produce maximum yields. The product warranty for the Sharp Solar modules is 10 years, with a performance guarantee of 25 years.

All-in-one – Samsung SDI battery solution

The compact stand-alone 3.6 kWh all-in-one solution contains all the devices required to operate a solar system with the aim of increasing the self-consumption of electrical energy coming from your roof.

The integrated photovoltaic inverter is capable of a maximum power input of 6.6 kWp which equals up to 26 units of Sharp's 250 W modules. Two independent MPP (Maximum Power Point) tracker maximize the flexibility for installations on south faced and east-west faced roofs, ideal for single-family homes.

An integrated battery charger stores electricity generated from a solar installation to the battery during daylight hours. The battery stores the electricity generated so it is ready for consumption when required, e.g. evening times, and this is efficiently managed by the internal Energy Management System. Instead of exporting the power to the grid and receiving a few pence from the export tariff, a home owner can start to reduce their electricity bill.

The all-in-one solution is designed for quick and simple installation.



Product Warranty **10** Years

Performance Warranty **25** Years



Performance Warranty **10** Years
(Battery)

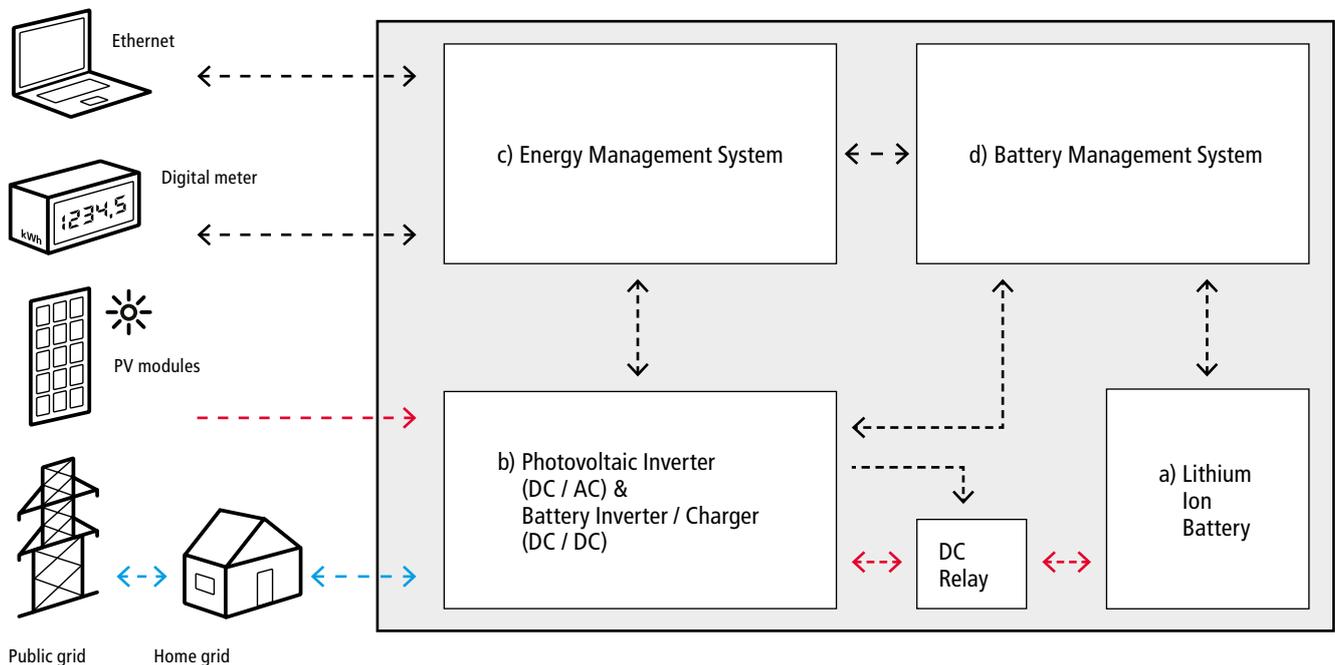
All-in-one:

A stand-alone battery solution including all key devices.

Components of the all-in-one solution: a) Lithium Ion Battery (3.6 kWh) b) Photovoltaic Inverter & Battery Inverter / Charger
 c) Energy Management System d) Battery Management System

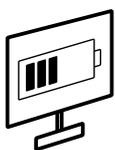
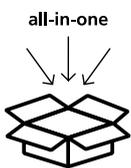
Schematic of the all-in-one solution:

Communication Line DC Power Line AC Power Line



Advantages:

- A compact stand-alone battery system containing all the key devices required for the operation of a solar system for residential homes
- Two independent MPP tracker of 3.3 kW each for maximum flexibility
- Space saving, compact design for easy and quick installation, plug and play
- Supervision of all battery stages on cell level as well as charging and discharging controlled by the integrated Energy Management System
- Remote maintenance and monitoring via web and mobile devices
- Prior malfunction sensing



- VDE tested battery system
- Lithium ion cells (Lithium Manganese Oxide) used were developed to meet the requirements of global top automotive brands' electric vehicles. Safety is guaranteed even under harsh conditions.
- Battery capacity 3.6 kWh (3.24 kWh usable, depth of discharge 90%)
- Long life span and cycle life 6,000 times (charge / discharge cycles at 25°C)
- Take-back of battery after life-time

