

Sharp Solar Energy System



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 gererated 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.

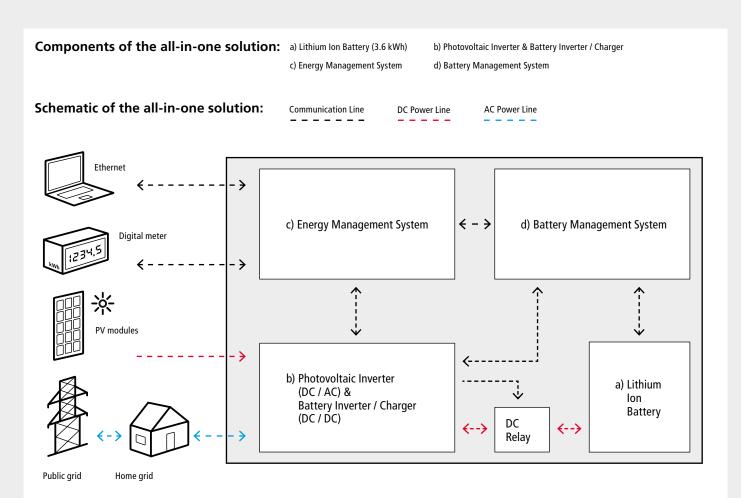


Product 10Years Warranty 25Years



Performance **10Years** Warranty (Battery)

All-in-one: A stand-alone battery solution including all key devices.



Advantages:

all-in-one



- 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

All-in-one battery solution: Facts and figures

Technical Data L20SDI3600UK		Specification
DC Input (PV)	Max Power	6.6 kWp (3.3 kWp per one string)
	Max Voltage	550 V
	MPPT / Rated Voltage	125~500 V/ 400 V per string
	Min / Initial Input Voltage	125 V / 150 V per string
	Max Input Current	15 A per string
	No. of Strings / No. of MPP Tracker	2/2
	PV Module Connectors	MC4
AC Output	Rated Power Output (at 230V, 50 Hz)	AC Nominal Power can be changed by software:
		3,680 W 4,600 W
	Nominal Current	16 A (for UK G83/2 setting) 20 A
	EU Efficiency: PV to Grid	90.0% 95.0%
	Nominal Voltage	230 V, 50 Hz
	Feed-in / Connection Phase	1/1
Battery	Manufacturer	SAMSUNG SDI
	Technology	Li-Ion (Lithium Manganese Oxide)
	Power	2.0 kW
	Capacity	3.6 kWh (3.24 kWh usable at DoD of 90%)
Mechanical	Dimension	1,000 x 267 x 680 (mm)
	Weight Inverter / Battery	50 kg/45 kg
Environmental	Operating Temperature	-10~40 °C
	Storage Temperature	-20~60 °C
	Humidity	Maximum 95%, non-condensing
	IP Grade	IP21
Certifications and Approvals		CE, IEC62109-1/2, EN 50438, G83/2, G59/3, UN Test 38.3
Warranty		Product Warranty Battery: 5 years Performance Warranty Battery: 10 years Product Warranty Inverter System: 5 years
EMS	Monitoring (Device/Remote)	Segment LCD / Web, Mobile
	Software update	Internet update
Diagnosis Malfunction		Yes

Specification subject to change without notice

This is Why

www.sharp.co.uk/solar



Sharp Energy Solution Europe a division of Sharp Electronics (Europe) Ltd. Sonninstrasse 3 20097 Hamburg Germany Tel:+49(0) 40/2376-0 Fax:+49(0) 40/2376-2193

E-Mail: United Kindom: SolarInfo.uk@sharp.eu Benelux: SolarInfo.seb@sharp.eu Spain&Portugal: SolarInfo.es@sharp.eu Germany: SolarInfo.de@sharp.eu France: SolarInfo.fr@sharp.eu Other countries: SolarInfo.Europe@sharp.eu