

Q CELLS ENERGY STORAGE SOLUTIONS

Q.HOME+ ESS-G1 – THE ALL-IN-ONE SOLUTION





ALL-IN-ONE STORAGE SOLUTIONS INVERTER, BATTERY AND MANAGEMENT SYSTEM

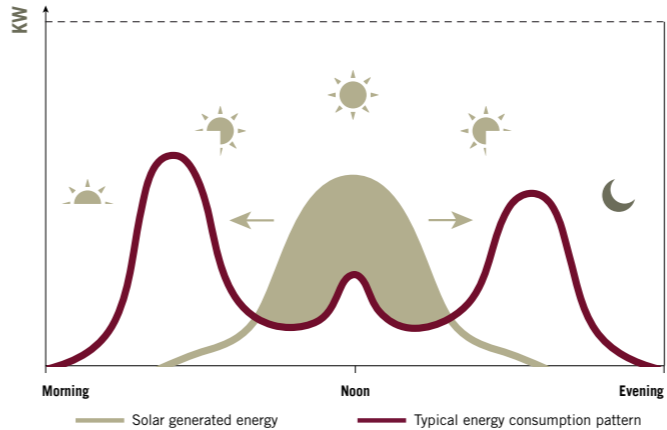
THE Q CELLS Q.HOME+ ESS-G1 ENERGY STORAGE SOLUTIONS ALLOW TO STORE THE SOLAR ENERGY PRODUCED ON YOUR ROOFTOP FOR THE TIME WHEN THE SUN IS NOT SHINING THAT BRIGHT OR DURING NIGHTTIME.



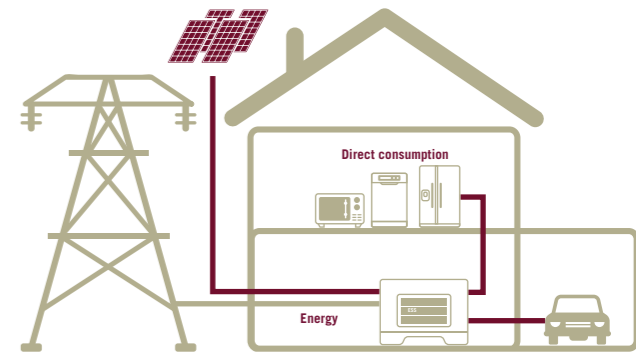
Our Q CELLS Q.HOME+ ESS-G1 is the ideal solution for the environmentally-friendly reduction of electricity costs for private houses and ensures a reliable long-term operation and high output. The combination of its integrated inverter with a proven Samsung lithium-ion battery technology makes Q.HOME+ ESS-G1 the perfect choice for your all-in-one de-

vice for energy self-consumption. Q.HOME+ ESS-G1 includes a 10-year warranty and comes with a built-in web server for monitoring your solar system via the internet. With Q.HOME+ ESS-G1 you may store your clean and cheap solar energy for the use during nighttime or whenever the sun is not shining.

PEAK TIMES OF SOLAR ENERGY SELF-CONSUMPTION



HOW AN ENERGY STORAGE SYSTEM HELPS YOU TO SAVE MONEY



It is often more economical to consume the solar energy than to sell it back to the grid. Due to increasing energy bills, self-consumption of the own produced solar energy is the smart way to save money and reduce your carbon footprint.

Q.HOME+ ESS-G1

OPTIMISED CAPACITY FOR RESIDENTIAL HOUSES

SINCE EACH RESIDENTIAL HOME DIFFERS IN SIZE AND IN THE SPECIFIC ENERGY NEEDS OF ITS OWNERS BOTH THE SOLAR SYSTEM AND THE ENERGY STORAGE SYSTEM NEED TO BE OPTIMISED TO EACH OTHER.



Q.HOME+ ESS-G1 3.6

Q.HOME+ ESS-G1 3.6 is the smallest version of our optimised product range. With its 3.6kWh capacity it is the ideal solution for solar systems with a size of up to 6.6kWp.

Q.HOME+ ESS-G1 5.5

Q.HOME+ ESS-G1 5.5 offers 5.5kWh battery capacity while maintaining its compactness.

Q.HOME+ ESS-G1 8.0

Q.HOME+ ESS-G1 8.0 with a capacity of 8.0kWh is the ideal storage solution for solar systems of up to 10kWp. With its three phase inverter it is more efficient than the smaller devices of our product range.

PRODUCT SPECIFICATION Q.HOME+ ESS-G1				
ITEM		Q.HOME+ ESS-G1 3.6	Q.HOME+ ESS-G1 5.5	Q.HOME+ ESS-G1 8.0
DC Input (PV)	Max Power	6.6kWp	6.6kWp	10.0kWp
	Max Voltage	550V	550V	1.000V
	MPPT/Rated Voltage	125V ~ 500V/400V	125V ~ 500V/400V	320V ~ 800V
	Min./Initial Input Voltage	125V/150V	125V/150V	150V/180V
	No. of Strings (MPPT)	2 (2)	2 (2)	2/4 (2+2)
AC Output	Power	5.0kVA/4.6kVA (DE)	5.0kVA/4.6kVA (DE)	8.0kVA (DE)
	Nominal voltage/Frequency	230V/50Hz	230V/50Hz	230V/50Hz
	Feed-in Phase/Connection	1/1	1/1	3/3
Efficiency	PV to Grid (European)	95%	95%	96 ~ 97%
	Power	2 kW	2 kW	3 kW
Lithium-ion Battery	Nominal Capacity	3.6kWh	5.5kWh	8.0kWh
	Usable Capacity	3.24kWh	5.0kWh	7.2kWh
Product	Dimension (L x W x H)	1.000 x 260 x 680mm	1.000 x 260 x 680mm	1.070 x 260 x 880mm
	Weight	95kg	100kg	151kg
	IP grade	21	21	21
EMS	Remote Monitoring	Segment LCD/Web, Mobile		
	Software update	Internet Update		
	Prevent Malfunction	Yes		
Manufacturer	Company	Hansol Technics Co.,Ltd.		

Q CELLS ENERGY STORAGE SOLUTIONS YOUR ADVANTAGES AT A GLANCE

OUR Q CELLS ALL-IN-ONE SOLUTION Q.HOME+ ESS-G1 COMBINES THE FUNCTIONS OF SOLAR PV ARRAY, A BATTERY CHARGER AND LITHIUM-ION BATTERIES INTO ONE COMPACT UNIT.



SMART DESIGN

- 3 devices in one (PV array and battery inverter as well as lithium-ion battery)
- Smart installation and remote monitoring



REMOTE MAINTENANCE

- Early error detection
- Web- and mobile monitoring
- Local service network



SAFETY

- Automotive industry proven Samsung lithium-ion battery technology
- Battery and inverter tested by VDE



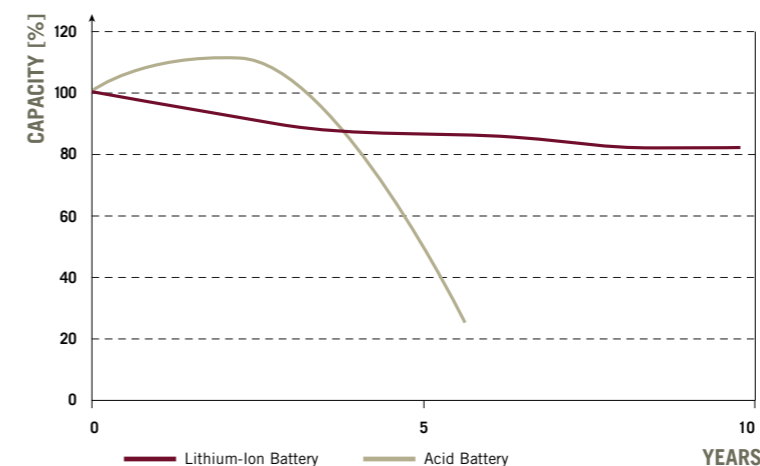
CYCLE STRENGTH

- Up to 6.000 cycles (tested at 25°C)



DURABILITY AND HIGH CYCLE STRENGTH

- 80% Performance Warranty after 10 years
- 10 years product Warranty
- High durability, short recharge time and high discharge depth



Q CELLS SOLAR MODULES VERSATILELY APPLICABLE

TO OUR PRODUCTS, HIGH QUALITY MEANS LONG TIME DURABILITY AND EXCELLENT TECHNICAL CHARACTERISTICS.

EXCELLENT COMPONENTS

Perfectly matched high performance components ensure a reliable long-term operation and high output. Our solar modules ensure a clean and safe energy generation. The combination of high efficiencies, high performance classes and optimised yields at real conditions guarantee that you will profit instantly from your investment.



Q.PLUS

The polycrystalline high-performance module Q.PLUS BFR-G4.1 is the ideal solution for all applications thanks to its innovative cell technology Q.ANTUM. The world-record cell design was developed to achieve the best performance under real conditions – even with low radiation intensity and on clear, hot summer days.

Q.PEAK

The new high-performance modules Q.PEAK-G4.1 and Q.PEAK BLK-G4.1 are the ideal solutions especially for residential buildings. The world-record cell design was developed to achieve the best performance under real conditions. Power and performance – even with low radiation intensity and on clear, hot summer days thanks to its innovative cell technology Q.ANTUM.

A PERFECT COMBINATION Q CELLS SOLAR SYSTEMS

DO YOU WANT TO EQUIP ROOFS WITH A RELIABLE AND PROFITABLE SOLAR SYSTEM? THEN OUR Q.HOME SOLAR PACKAGES ARE JUST RIGHT FOR YOU.

RELIABLE, HIGH-OUTPUT SOLAR SYSTEMS FOR ROOFSTOP APPLICATIONS

There are all kinds of energy needs, just as there are all kinds of roofs. That's why we offer you individually tailored solar packages – you can choose your own combination of products out of our wide range of high performance solar modules, inverters, and energy storage systems. Just choose the ideal Q CELLS solar packages optimised to your customers needs and self-consumption rate.

EXEMPLARY SOLAR SYSTEM SIZES

HOUSEHOLD SIZE / ENERGY CONSUMPTION	PV SYSTEM SIZE	MINIMUM ROOF SIZE	SELF-CONSUMPTION WITHOUT STORAGE SOLUTION Q.HOME+	SELF-CONSUMPTION WITH STORAGE SOLUTION Q.HOME+
2-Persons up to 3.200 kWh/p. a.	3.30 kWp	21 m ²	30%	70%
3-Persons up to 3.800 kWh/p. a.	3.85 kWp	24 m ²	30%	70%
4-Persons up to 4.400 kWh/p. a.	4.40 kWp	27 m ²	30%	70%
5-Persons up to 5.000 kWh/p. a.	4.95 kWp	31 m ²	30%	70%



KONTAKT

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