

Q.HOME+ ESS-G1 3.6

# Q.HOME+ ESS-G1

## THE Q CELLS ALL-IN-ONE ENERGY STORAGE SOLUTION

**Q.HOME+ ESS-G1** is our powerful storage system with integrated inverter for residential solar systems. Our **Q.HOME+ ESS-G1** ensures a reliable long-term operation and high output. **Q.HOME+ ESS-G1** includes a 10-year product warranty and comes with a built-in web server for the monitoring of the all-in-one storage solution.



### SMART DESIGN

Easy to install and remote control operated all-in-one system with integrated PV inverter, lithium-ion battery and battery charger.



### REMOTE MAINTENANCE

Easy maintenance of the device due to early error detection function, web and mobile monitoring and a reliable service network.



### SAFETY

Premium quality automotive industry proven Samsung lithium-ion battery.



### DURABILITY AND HIGH CYCLE STRENGTH

High durability with 10 years product warranty and a performance to be maintained at least 80% of the initial battery capacity after 10 years. Very short recharge time and a high discharge depth.



### CYCLE STRENGTH

Exceptional good cycle strength of up to 6,000 cycles (tested at 25 °C).



PV INVERTER



BATTERY CHARGER



SAMSUNG LITHIUM-ION BATTERY



10 YEARS PRODUCT WARRANTY

## TECHNICAL SPECIFICATIONS

GENERAL PRODUCT INFORMATION		Q.HOME+ ESS-G1 3.6	
Manufacturer		Hansol Technics	
Dimensions (W x H x D)	[mm]	1000 × 680 × 267	
Weight	[kg]	95	
Operating Temperature	[°C]	-10~40	
Relative Humidity [%]	[%]	max. 95 (non-condensing)	
Protection Degree/Class		IP21 / I	
Product Warranty/Performance Warranty		10/10 years	
Noise emissions		≤50dB (A) @ 1m	
AC Over voltage category		III	
Front Panel Display		LCD	
Communications		LAN, RS485	
Remote Monitoring		Web, mobile	
Software Update		Internet update	
Energy Management System		Integrated	
PV DATA (DC)			
Max. Input Power	[kWp]	6.6 (3.3 per MPPT)	
Max. Input Voltage [V <sub>oc</sub> ]	[V]	550	
MPPT Operating Range	[V]	125~500	
Initial Input Voltage	[V]	150	
Number of independent MPP trackers		2	
Number of DC-Inputs for each MPPT		1	
Maximum Input Current per MPPT	[A]	15	
Max. Short Circuit Current per MPPT	[A]	20	
DC Connection Type		MC4	
GRID DATA (AC)			
Nominal Power	[kW]	3.6*	4.6*
Max. Aparent Power	[kVA]	4.6	
Nominal Voltage/Range	[V]	230/184~264	
Nominal Grid Frequency/Range	[Hz]	50/47.5~51.5	
Feed-in Phases/Connection Phases		1/1	
Max. Current	[A]	16.0	20.0
Max. Over-Current Protection	[A]	30.0	
Power Factor Range		0.95~1~0.95	
Total Harmonic Distorsion	[%]	≤5	
EFFICIENCY (PV TO GRID)			
Maximum Efficiency	[%]	95.5	
European Efficiency	[%]	95.0	
BATTERY DATA (DC)			
Manufacturer		SAMSUNG SDI	
Battery Technology		Lithium-ion	
Battery Capacity	[kWh]	3.6	
Battery Usable Capacity	[kWh]	3.24	
Nominal Power	[kW]	2	
Converter Technology		Isolated	
Nominal Battery Voltage/Range	[Vdc]	60/48~65.9	
Maximum Current	[A]	46.3	
Depth of Discharge (DoD)	[%]	90 (5~95)	
Operating Life		6000 cycles	
COUNTRY AVAILABILITY/CERTIFICATES AND APPROVALS			
System Model/Inverter Model for UK		ELSR362-00002/SJ94-00108B	
Certificates and approvals		VDE-AR-N 4105, VDE 0126-1-1, CE, IEC 62109-1, IEC 62109-2, CEI 0-21, ER-G83/2, ER-G59/3	

**NOTE:** Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

(\*): It can be set 3600W or 4600W by software when installing the Q.HOME+ ESS-G1 3.6

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Engineered in **Germany**

