

Q.HOME+ ESS-G1 5.5

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THE Q CELLS ALL-IN-ONE ENERGY STORAGE SOLUTION

Q.HOME+ ESS-G1 is our powerful storage system range with integrated inverter for residential solar systems. **Q.HOME+ ESS-G1** is available in three different dimensions to suit the needs of the most common sizes of 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.



FOR RESIDENTIAL HOUSES OPTIMISED CAPACITY

Available in three different sizes to suit the specific energy production and consumption.



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	Q.HOME+ ESS-G1 5.5	Q.HOME+ ESS-G1 8.0
Manufacturer		Hansol Technics	Hansol Technics	Hansol Technics
Dimensions (W x H x D)	[mm]	1000 × 680 × 267	1000 × 680 × 267	1070 × 880 × 260
Weight	[kg]	95	100	155
Operating Temperature	[°C]	-10~40	-10~40	-10~40
Relative Humidity [%]	[%]	max. 95 (non-condensing)	max. 95 (non-condensing)	max. 95 (non-condensing)
Protection Degree/Class		IP21/I	IP21/I	IP21/I
Product Warranty/Performance Warranty		10/10 years	10/10 years	10/10 years
Noise emissions		≤50dB(A) @ 1m	≤50dB(A) @ 1m	≤38dB(A) @ 1m
AC Over voltage category		III	III	III
Front Panel Display		LCD	LCD	LCD
Communications		LAN, RS485	LAN, RS485	LAN, RS485
Remote Monitoring		Web, mobile	Web, mobile	Web, mobile
Software Update		Internet update	Internet update	Internet update
Energy Management System		Integrated	Integrated	Integrated
PV DATA (DC)				
Max. Input Power	[kWp]	6.6 (3.3 per MPPT)	6.6 (3.3 per MPPT)	10.0 (5.0 per MPPT)
Max. Input Voltage [V_{DC}]	[V]	550	550	1000
MPPT Operating Range	[V]	125~500	125~500	320~800
Initial Input Voltage	[V]	150	150	188
Number of independent MPP trackers		2	2	2
Number of DC-Inputs for each MPPT		1	1	2
Maximum Input Current per MPPT	[A]	15	15	16
Max. Short Circuit Current per MPPT	[A]	20	20	20
DC Connection Type		MC4	MC4	MC4
GRID DATA (AC)				
Nominal Power	[kW]	4.6	4.6	8.0
Max. Apparent Power	[kVA]	4.6	4.6	8.0
Nominal Voltage/Range	[V]	230/-20%~+15%	230/-20%~+15%	400 (230)/-20%~+15%
Nominal Grid Frequency/Range	[Hz]	50/47.5~51.5	50/47.5~51.5	50/47.5~51.5
Feed-in Phases/Connection Phases		1/1	1/1	3/3
Max. Current	[A]	20.0	20.0	11.6
Max. Over-Current Protection	[A]	30.0	30.0	20.0
Power Factor Range		0.95~1~0.95	0.95~1~0.95	0.95~1~0.95
Total Harmonic Distorsion	[%]	≤5	≤5	≤5
EFFICIENCY (PV TO GRID)				
Maximum Efficiency	[%]	95.5	95.5	97.5
European Efficiency	[%]	95.0	95.0	97.0
BATTERY DATA (DC)				
Manufacturer		SAMSUNG SDI	SAMSUNG SDI	SAMSUNG SDI
Battery Technology		Lithium-ion	Lithium-ion	Lithium-ion
Battery Capacity	[kWh]	3.6	5.5	8.0
Battery Usable Capacity	[kWh]	3.24	5.0	7.2
Nominal Power	[kW]	2	2	3
Converter Technology		Isolated	Isolated	Isolated
Nominal Battery Voltage/Range	[Vdc]	60/48~65.9	60/48~65.9	118/96~131
Maximum Current	[A]	46.3	46.3	31.25
Depth of Discharge (DoD)	[%]	90 (5~95)	90 (5~95)	90 (5~95)
Operating Life		6000 cycles	6000 cycles	6000 cycles
COUNTRY AVAILABILITY/CERTIFICATES AND APPROVALS				
System Model/Inverter Model for France		ELSR362-00006/SJ94-00108F	ELSR552-00006/SJ94-00167F	not available
System Model/Inverter Model for Germany		ELSR362-00001/SJ94-00108A	ELSR552-00001/SJ94-00167A	ELSR802-00002/SJ94-00171A
System Model/Inverter Model for Italy		ELSR362-00005/SJ94-00108E	ELSR552-00005/SJ94-00167E	not available
System Model/Inverter Model for UK		ELSR362-00002/SJ94-00108B	not available	not available
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	VDE-AR-N 4105, VDE 0126-1-1, CE, IEC 62109-1, IEC 62109-2, CEI 0-21	VDE-AR-N 4105, VDE 0126-1-1, CE, IEC 62109-1, IEC 62109-2

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.

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Engineered in Germany

