

Q.HOME+ ESS HYB-G2

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THE MODULAR AND SCALABLE
ENERGY STORAGE SOLUTION



**HYBRID
INVERTER**



**BATTERY
CHARGER**



**SAMSUNG
LITHIUM-ION
BATTERY**



**10 YEARS PRODUCT
WARRANTY**



DURABILITY AND HIGH CYCLE STRENGTH

Fully-wrapped 10 year product warranty with one point of contact and local support. Very short recharge time and a high discharge depth.



SCALABLE SOLUTION FOR OPTIMISED CONSUMPTION

Scalable storage capacity from 4 kWh up to 18.9 kWh to suit the specific energy consumption.



BACKUP POWER FUNCTION

Thanks to the integrated backup power function, even in the event of power failure 3 kW continuous operation at the second output (switchover time max. 30 seconds).



SMART DESIGN

Modular design for easy and fast installation, remote operated hybrid system with PV inverter, lithium-ion battery, battery charger, and silent natural cooling system (no fans).



CYCLE STRENGTH

High charging cycle strength, deep discharge and short charging times.



SAFETY

Made in Korea with premium quality Samsung lithium-ion batteries.



REMOTE MAINTENANCE

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

THE IDEAL SOLUTION FOR:



Rooftop arrays on
residential buildings

TECHNICAL SPECIFICATIONS

GENERAL PRODUCT INFORMATION		Q.HOME ⁺ ESS HYB-G2	
Manufacturer		Hanwha Solutions Corporation	
Dimensions Inverter Module / Battery Module (W x H x D)	[mm]	467 x 721 x 212	
Weight Inverter Module / Battery Module	[kg]	31.3/52.3	
Operating Temperature	[°C]	0~40	
Relative Humidity	[%]	95 (non-condensing)	
Protection Degree / Class		IP65	
Mounting		Wall-Mounted or Floor-Mounted (with Bracket) Options	
Max. operating height without power loss	[m]	2000	
Cooling method		Natural cooling	
Product Warranty / Performance Warranty		10 / 10 years	
Noise emissions		≤40dB (A) @ 1m	
AC Over voltage category		III	
Front Panel Display		5" TFT Touch LCD	
Communications		LAN, RS485, CAN	
Remote Monitoring		Web, mobile	
Software Update		Internet update	
Energy Management System		Integrated	
PV DATA (DC)			
Max. Input Usable Power	[kWp]	6.6 (3.3 per MPPT)	
Max. Input Voltage [V _{DC}]	[V]	550	
Start input voltage / MPPT Operating Range / Rated Input Voltage	[V]	150/125~500/400	
Number of independent MPPTs		2	
Number of DC input pairs per MPPT		1	
Max. Input Current per MPPT / Max. Short Circuit Current per MPPT	[A]	15/20	
DC Connection Type		PV quick fit connector	
GRID DATA (AC)			
Max. Apparent Power / Rated output power	[kVA/kW]	5.0/5.0	
Nominal Voltage / Range	[V]	230/184~264	
Nominal Grid Frequency / Range	[Hz]	50/47~52	
Feed-in Phases / Connection Phases		Single/Single	
Nominal Current / Max. Current / Max. Over-Current Protection	[A]	21.7/25/30	
Power Factor Range		0.8 lagging to 0.8 leading	
Total Harmonic Distortion	[%]	≤5	
BACKUP POWER OUTPUT (ALTERNATING CURRENT)			
Connection phases		Single	
Rated apparent power / rated power	[kVA/kW]	3/3 (4.6kW max. 10 minutes)	
Rated voltage	[V]	230	
Rated frequency	[Hz]	50	
Switch over time to backup power		less than 30 seconds	
Support by PV during backup power operation		YES	
EFFICIENCY (PV TO GRID)			
Max. Efficiency	[%]	95.28	
BATTERY UNIT (DC)			
Battery name		Q.SAVE-G2 4 kWh	Q.SAVE-G2 6.3 kWh
Manufacturer		Hanwha Solutions Corporation (battery from Samsung SDI)	
Battery technology		Lithium-ion	
Battery capacity	[kWh]	4/8/12 (4kWh/module)	6.3/12.6/18.9 (6.3kWh/module)
Battery usable capacity	[kWh]	3.60/7.20/10.80	5.67/11.34/17.01
Max. charging capacity / max. discharge capacity	[kW]	2 (one battery module), 3 (≥two battery modules) / 3	3 / 3
Converter technology		Non-isolated	
Rated battery voltage / Battery voltage range	[Vdc]	203.84 / 176.40~225.12	202.7 / 173.6~228.2
Maximum charging / Discharging current	[A]	17 (9.8 with one battery module) / 17	17 (15.6 with one battery module) / 17
Depth of discharge (DoD)	[%]	90	
COUNTRY AVAILABILITY / CERTIFICATES AND APPROVALS			
Inverter Model Name		Q.VOLT HYB-G2 5kW.1.1	
Battery Model Name		Q.SAVE-G2 4kWh B1.1.1, Q.SAVE-G2 6.3kWh B1.1.1	
Certificates and approvals		VDE-AR-N 4105:2018, CE, IEC62109-1, IEC62109-2, IEC 62619, IEC 62477-1, EN 61000-6-2, EN 61000-6-3, AS/NZS 4777.2:2015, AS62040, IEC62116, IEC 60068.2-52	

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.

Made in Korea

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