

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 product year 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 4kWh up to 12kWh to suit the specific energy consumption.



BACKUP POWER FUNCTION

Thanks to the integrated backup power function, even in the event of power failure 3kW 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

Engineered in Germany

Q CELLS

TECHNICAL SPECIFICATIONS

| GENERAL PRODUCT INFORMATION | | Q.HOME ⁺ ESS HYB-G2 |
|---|------------|---|
| Manufacturer | | Hanwha Solutions Corporation |
| Dimensions Inverter Module / Battery Module (W × H × D) | [mm] | 467 × 721 × 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 | | ≤40 dB (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) | | |
| Manufacturer | | Hanwha Solutions Corporation (battery from Samsung SDI) |
| Battery Technology | | Lithium Ion |
| Battery Capacity | [kWh] | 4 / 8 / 12 (4kWh per Battery module) |
| Battery Usable Capacity | [kWh] | 3.6 / 7.2 / 10.8 |
| Max. charging capacity / max. discharge capacity | [kW] | 2 (one battery module), 3 (≥two battery modules) / 3 |
| Converter Technology | | Non-isolated |
| Rated Battery Voltage / Battery Voltage Range | [Vdc] | 203.84 / 176.40~225.12 |
| Maximum Charging / Discharging Current | [A] | 17 (9.8 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 |
| 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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Engineered in Germany

