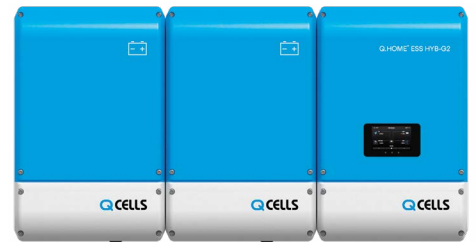


Q.HOME⁺ ESS HYB-G2

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THE MODULAR AND SCALABLE
ENERGY STORAGE SOLUTION



**HYBRID
INVERTER**



**BATTERY
CHARGER**



**SAMSUNG
LITHIUM-ION
BATTERY**



**10-YEAR PRODUCT
WARRANTY**



SCALABLE SOLUTION FOR OPTIMISED CONSUMPTION

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



SMART DESIGN

Modular design for easy and fast installation, remote control operated hybrid system with 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 Samsung lithium-ion battery.



DURABILITY AND HIGH CYCLE STRENGTH

High durability with a 10-year 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

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



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).

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 × H × D) | [mm] | 468 × 722 × 213 | |
| Weight inverter module / Battery module | [kg] | 31.3/52.3 | |
| Operating temperature | [°C] | 0~40 | |
| Relative humidity | [%] | 4-100 | |
| Protection degree / Class | | IP65 | |
| Mounting | | Wall mounted | |
| 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 power | [kWp] | 6.6 (3.3 per MPPT) | |
| Max. input voltage [V _{oc}] | [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 | | Weidmüller | |
| GRID DATA (AC) | | | |
| Max. apparent power / Rated output power | [kVA/kW] | 4.6/4.6 | |
| Nominal voltage / Range | [V] | 230/184~264 | |
| Nominal grid frequency / Range | [Hz] | 50/47.5~51.5 | |
| Feed-in phases / Connection phases | | 1/1 | |
| Nominal current / Max. current / Max. over-current protection | [A] | 20/25/32 | |
| Power factor range | | 0.8~1~0.8 | |
| Total harmonic distortion | [%] | ≤5 | |
| BACKUP POWER OUTPUT (ALTERNATING CURRENT) | | | |
| Connection phases | | 1 | |
| 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 / European efficiency | [%] | 96.2/95.5 | |
| 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 (4 kWh/module) | 6.3 / 12.6 / 18.9 (6.3 kWh/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 4.6 kW 1.1 | |
| Battery model name | | Q.SAVE-G2 4 kWh B1.1.1, Q.SAVE-G2 6.3 kWh 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 | |

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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