Q.HOME+ ESS HYB-G2

THE MODULAR AND SCALABLE ENERGY STORAGE SOLUTION FROM Q CELLS

Q.HOME+ ESS HYB-G2 is our scalable storage solution for residential photovoltaic systems. Q.HOME+ ESS HYB-G2 is available in five different storage sizes to suit the needs of the most common residential applications. Our Q.HOME+ ESS HYB-G2 ensures a reliable long-term operation and high output. Q.HOME+ ESS HYB-G2 includes a 10-year product warranty.

SCALABLE SOLUTION FOR OPTIMISED CONSUMPTION
Scalable storage capacity from 4 kWh up to 20 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 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)

HYBRID INVERTER

+

BATTERY CHARGER

+

SAMSUNG LITHIUM-ION BATTERY

+

10 YEARS PRODUCT WARRANTY

Q CELLS

TECHNICAL SPECIFICATIONS

GENERAL PRODUCT INFORMATION		Q.HOME+ ESS HYB-G2
Manufacturer		Hansol Technics
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]	–10~40
Relative Humidity [%]	[%]	4-100
Protection Degree/Class		IP65
Mounting		Wall Mounted
Maximum Operating altitude		2000 m
Cooling method		Natural Cooling
Product Warranty/Performance Warranty		10/10 years
Noise emissions		≤ 40 dB(A) @ 1 m
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_{DC}]	[V]	550
MPPT Operating Range / Rated Input Voltage	[V]	125~500/400
Initial Input Voltage	[V]	150
Number of independent MPPTs		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		Weidmüller
GRID DATA (AC)		
Nominal Power	[kW]	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
Nominal Current/Max. Current	[A]	20.0/25.0
Max. Over-Current Protection	[A]	32.0
Power Factor Range		0.8~1~0.8
Total Harmonic Distorsion	[%]	≤ 5
EFFICIENCY (PV TO GRID)		
Maximum Efficiency	[%]	96.2
European Efficiency	[%]	95.5
BATTERY DATA (DC)		
Manufacturer		Hansol Technics (battery from Samsung SDI)
Battery Technology		Lithium-ion
Battery Capacity	[kWh]	4.0/8.0/12.0/16.0/20.0 (4 kWh per battery)
Battery Usable Capacity	[kWh]	3.6/7.2/10.8/14.4/18
Max. Discharge Power	[kW]	3.0
Converter Technology		Non-isolated
Rated Battery Voltage/Battery Voltage Range	[Vdc]	203.84/176.40~225.12
Maximum Charging/Discharging Current	[A]	17.0 (9.8 with one battery)/17.0
Depth of Discharge (DoD)	[%]	90 (5~95)
Operating Life		6000 cycles
COUNTRY AVAILABILITY/CERTIFICATES AND APPROVALS		
Inverter Model Name		HSHP-4601
Battery Model Name		HSBE-4001
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 0126-1-1/A1 VFR 2014

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**

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