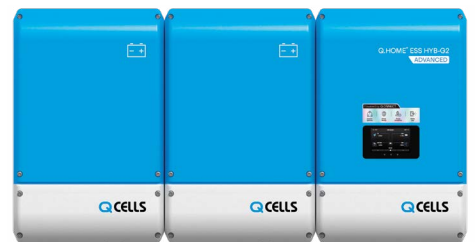


Q.HOME⁺ ESS HYB-G2
ADVANCED

Q.HOME⁺ ESS HYB-G2

ADVANCED

THE SCALABLE ENERGY STORAGE SOLUTION
WITH THE NEW Q.ONNECT MONITORING
PLATFORM



HYBRID
INVERTER



BATTERY
CHARGER



SAMSUNG
LITHIUM-ION
BATTERY



10-YEAR PRODUCT
WARRANTY



Q.ONNECT
MONITORING PLATFORM

THE IDEAL SOLUTION FOR:



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).



Q.ONNECT

Q CELLS' in-house developed monitoring platform powered by our own operating system, Q.URIOS.

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 (4 kWh), 59.4 (6.3 kWh)	
Operating temperature	Inverter (Derates >40 °C)	[°C]	-20 ~ +50
	Battery (Derates outside these temperatures)		0 ~ +40 (4 kWh) / -10 ~ +40 (6.3 kWh)
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) @ 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 _{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	PV quick fit connector		
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 (4.6 kW 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 power / max. discharging power	[kW]	2 (one battery module), 3 (≥ two battery modules) / 3	3 / 3
Rated power	[kW]	0.8 × Pack	1.25 × Pack
Converter technology	Non-isolated		
Rated battery voltage / Battery voltage range	[V _{dc}]	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.

Hanwha Q CELLS GmbH

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Engineered in Germany

