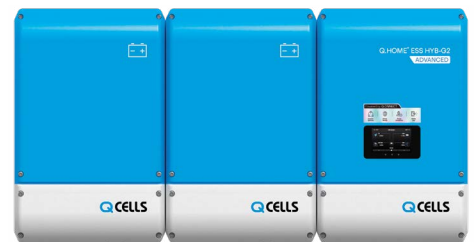


Q.HOME<sup>+</sup> ESS HYB-G2  
ADVANCED

# Q.HOME<sup>+</sup> 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 YEARS PRODUCT  
WARRANTY AND 7 DAYS /  
WEEK TECHNICAL SUPPORT**



**Q.ONNECT  
MONITORING PLATFORM**

**THE IDEAL SOLUTION FOR:**



Residential  
Installations



### 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, battery charger and  
silent passive cooling system (no fans).



### 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

Fully-wrapped 10 year product warranty with one point of contact  
and 7 days / week local support. 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 3kW 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	[%]	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		Passive 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 & app	
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 <sub>DC</sub> ]	[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		1 / 1	
Nominal current / Max. current / Max. over-current protection	[A]	21.7 / 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 (nominal)	[kW]	2 (one battery module), 3 (≥ two battery modules) / 3	3 / 3
Rated power (nominal)	[kW]	0.8 × Pack	1.25 × Pack
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 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, 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**

**Hanwha Q CELLS Australia Pty Ltd**

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Engineered in Germany

