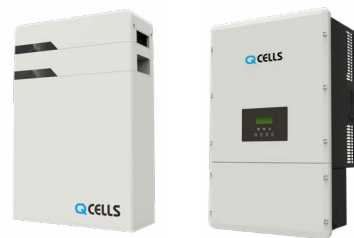


# Q.HOME<sup>+</sup> ESS HYB-G1

MODULAR ENERGY STORAGE SOLUTION  
FOR NORTH AMERICA



**HYBRID  
INVERTER**



**BATTERY  
CHARGER**



**LITHIUM-ION  
BATTERY**



**10 YEAR PRODUCT  
WARRANTY**



## SCALABLE SOLUTION FOR OPTIMIZED CONSUMPTION

Scalable storage capacity from 4.5kWh up to 18.9kWh to suit all consumption cases.



## SMART DESIGN

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



## REMOTE MONITORING

Easy maintenance due to its early error detection function, web and mobile monitoring, and a reliable service network.



## SAFETY AND RELIABILITY

Premium quality lithium-ion.



## DURABILITY

High durability with 10 year product warranty and 90 % depth of discharge (DoD).



## 100 % BACKUP POWER FUNCTION

Thanks to the integrated backup power function, even in the event of power failure 100 % of the rated inverter output will support critical loads.

## THE IDEAL SOLUTION FOR:



Rooftop arrays on  
residential buildings

## TECHNICAL SPECIFICATIONS

GENERAL PRODUCT INFORMATION		Q.HOME® ESS HYB-G1			
		6.0kW	7.0kW	7.6kW	8.6kW
Dimensions inverter / storage (L × W × D)	[in]	36 × 22 × 10.9 (913 × 560 × 276mm) / 18.3 × 7.6 × 23.1in (464 × 193 × 588mm)			
Weight inverter / storage (4.5kWh) / storage (6.3kWh)	[lbs]	130 (58.9kg) / 124.8 (56.6kg) / 148.4 (67.5kg)			
Operating temperature inverter / storage	[°F]	32~113 (0~45 °C) / 32~113 (0~45 °C)			
Relative humidity	[%]	0-100			
Enclosure rating		Type 4X			
Mounting		Wall mounted			
Max. operating height without power loss	[m]	2000			
Cooling method		Natural			
Noise emissions	[dB]	≤35			
AC over voltage category		I/IV			
Front panel display		LCD			
Communications		RS485 / LAN / CAN 2.0 / WiFi / 4G (optional)			
Remote monitoring		Web, mobile			
Software update		Local USB / Remote Web			
Energy management system		Integrated			
PV DATA (DC)					
Max. input power	[kW]	7.2	8.4	9.12	10.32
Max. input voltage [V <sub>dc</sub> ]	[V]	600			
Start input voltage / MPPT operating range / Rated input voltage	[V]	150 / 105~500 / 360			
Shutdown voltage	[V]	80			
Number of independent MPPTs		2	3	3	4
Maximum DC power per MPPT	[kW]	3.6			
Max. input current per MPPT / Max. short circuit current per MPPT	[A]	10 / 12.5			
GRID DATA (AC)					
Max. output power / Rated output power	[kVA]	6.6 / 6	7.7 / 7	8.36 / 7.6	9.46 / 8.6
Nominal voltage / Range	[V]	120 / 240 split phase (105.5 / 211 ~ 132 / 264)			
Nominal grid frequency / Range	[Hz]	60 / 59.3 ~ 60.5			
Nominal current	[A]	25	29	32	36
Maximum AC output current protection	[A]	28	32	35	41
Power factor		>99 (adj. ±0.8)			
Total harmonic distortion	[%]	≤3			
BACKUP POWER OUTPUT (AC)					
Max. output power / Rated output power	[kW]	6.6 / 6	7.7 / 7	8.3 / 7.5	8.3 / 7.5
Max. output current / Rated output current	[A]	28 / 25	32 / 29	35 / 32	35 / 32
Rated voltage	[V]	120 / 240 split phase			
Rated frequency	[Hz]	60			
Switchover time to backup power		<200ms			
Support by PV during backup power operation		YES			
EFFICIENCY					
Max. efficiency (PV-AC) / CEC efficiency	[%]	96.7 / 95.67			
Max. efficiency (PV-Battery) / (Battery-AC)	[%]	98.24 / 96.46			
BATTERY DATA (DC)					
Battery technology		Lithium-ion (NMC)			
Battery usable capacity per module	[kWh]	4.5 / 6.3			
Scalability		Up to three battery modules			
Max. battery usable capacity	[kWh]	13.5 / 18.9			
Rated power / Max. power (with three battery modules)	[kW]	7.5 / 8.3			
Rated battery voltage / Battery voltage range (per module)	[Vdc]	100.8 / 85 ~ 118			
Battery management system voltage range	[Vdc]	84 - 432			
Rated discharging current	[A]	25			
Depth of discharge (DoD)	[%]	90			
COUNTRY AVAILABILITY / CERTIFICATES AND WARRANTY					
Inverter certificates		UL 1741, UL 1741.SA, UL 9540, IEEE 1547, IEEE 1547.1, CSA – C 22.2N.107.1-01, UL 1998, UL 1699B, FCC part 15 Class B			
Battery certificates		UL 1642, UL 1973, UL 9540, CE, RCM, TUV (IEC 62619), UN 3480, Class 9, UN 38.3			
Product warranty / Performance warranty		10 years			

**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.