## Q.HOME+ ESS HYB-G1

### **Energy Storage Solution**



# Hybrid Inverter 6.0/7.0/9.0/8.6 kWh Up to 95.67% Conversion Efficiency

MODEL Q.HOM

Q.HOME+ ESS HYB-G1











BATTERY CHARGER











### Scalable solution for optimized consumption

Scalable storage capacity from  $4.5\,\mathrm{kWh}$  up to  $18.9\,\mathrm{kWh}$  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.

#### The ideal solution for:



Rooftop arrays on residential buildings



#### 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.

#### ■ Technical Specification

GENERAL PRODUCT INFORMATION			Q.HOME	+ ESS HYB-G1		
		6.0 kW	7.0 kW	7.6 kW	8.6 kW	
Dimensions inverter/storage (L × W × D)	[in]	36 × 22 × 10.9 (913 × 560 × 276 mm)/18.3 × 7.6 × 23.1 in (464 × 193 × 588 mm)				
Weight inverter / storage (4.5 kWh) / storage (6.3 kWh)	[lbs]	130 (58.9 kg)/124.8 (56.6 kg)/148.4 (67.5 kg)				
Operating temperature inverter/storage	[°F]		32 ~ 113 (0 ~ 45 °C	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	[GD]	1/IV				
Front panel display				LCD		
Communications		RS485/LAN/CAN 2.0/WiFi/4G (optional)				
Remote monitoring		Web, mobile				
		Local USB/Remote Web				
Software update						
Energy management system			Inte	egrated		
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	1.1	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		
max. input current per inicr 17 max. Short circuit current per inicr	[A]		IC	11 IZ.J		
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]			se (105.5/211~132/264)		
Nominal grid frequency/Range	[Hz]			9.3~60.5		
Nominal current	[A]	25	29	32	36	
Maximum AC output current protection	[A]	28	32	35	41	
Power factor	[~]	20		(adj. ±0.8)	71	
Total harmonic distorsion	[%]		~991	(auj. ±0.6) ≤3		
.o.aa.monic distorsion	[79]					
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]	20,20		) split phase	33732	
Rated frequency	[Hz]	60				
Switchover time to backup power	[r 14]	<200 ms				
Support by PV during backup power operation		YES				
Suppose by Fire during success power operation				123		
EFFICIENCY						
Max. efficiency (PV-AC)/CEC efficiency	[%]		96	7/95.67		
Max. efficiency (PV-Battery)/(Battery-AC)	[%]	98.24/96.46				
max. emotercy (i v-Dattery)/ (Dattery-MC)	[/0]		36.2	. 1, 50.70		
BATTERY DATA (DC)						
Battery technology			Lithium	n-ion (NMC)		
Battery usable capacity per module	[kWh]	Lithium-ion (NMC) 4.5/6.3				
Scalability	[L/AA11]	Up to three battery modules				
· · · · · · · · · · · · · · · · · · ·	[INMb]	13.5/18.9				
Max. battery usable capacity	[kWh]					
Rated power/Max. power (with three battery modules)	[kW]	7.5/8.3				
Rated battery voltage / Battery voltage range (per module)	[V <sub>DC</sub> ]	100.8/85~118				
Battery management system voltage range	[V <sub>DC</sub> ]	84 - 432				
Rated discharging current	[A]	25				
Depth of discharge (DoD)	[%]			90		
COLINITRY AVAILABILITY/CERTIFICATES AND WARRA	NITY					
COUNTRY AVAILABILITY/CERTIFICATES AND WARRA	NIY					
Inverter certificates		84 - 432				
Battery certificates			25			

