# Q.HOME CORE H4/A4

### **Energy Storage Solution**



H4: DC-coupled (Hybrid)

A4: AC-coupled

MODEL Q.VOLT H4.6S/A4.6S | Q.SAVE B6.8S | Q.OMMAND





#### **Easy installation**

Equipment design emphasizing improved simplicity of installation



#### **High efficiency**

Competitive round-trip efficiency all-around system



#### **Dynamic optimizer mode**

Algorithm maximises energy yields by incorporating real-time weather information



#### Scalable battery

Scalable battery from  $6.8\,\text{kWh}$ ,  $13.7\,\text{kWh}$  and  $20.5\,\text{kWh}$  to suit specific energy consumption



#### **Enhanced reliability**

grid fault and restoration

**Extended Warranty** 

**ATS-free Seamless Control** 

Excellent system reliability with Samsung SDI battery cells

Seamless operation mode conversion for continuous and stable backup without external ATS on both circumstances,

Fully wrapped 15-year product and performance warranty

## orating

#### The ideal solution for:



Residential PV system

### ■ Technical Specification

GENERAL PRODUCT INFORMATION  Dimensions Inverter Module / Battery Module (W × H × D)	[mm]	<b>Q.HOME CORE H4</b> 460 × 700 × 221, 2	Q.HOME CORE A4	
Weight Inverter Module / Battery Module (W × H × D)	[kg]	37.5/61.1	33.9/61.1	
•		Q.VOLT: -20 to 60 (de-rating Start		
Operating Temperature Range Relative Humidity	[°C] [%]	Q.VOLT: -20 to 60 (de-rating Stan 4 to 100 (Cor		
-	[70]	4 to 100 (Cor	57	
Protection Degree / Class				
Mounting	r 7	Wall-Mounted or Floor-Mounted Options		
Max. Operation altitude	[m]	2,000		
Cooling Method		Natural air		
Product Warranty/Performance Warranty*		15/15 ye		
Noise Emissions		≤40 dB (A)		
Over Voltage Category (Internal)		OVC II (DC)/C	· '	
Communications		LAN, RS485, CAN, Wi-Fi (c		
Remote Monitoring		Web, Mobile		
Software Update		Online update		
Energy Management System		Integrated		
Country of Manufacturer		Republic o	f Korea	
PV DATA (DC)				
Max. Input power (Max. Input per MPPT)	[kWp]	8.0 (4.0 per MPPT)	N/A	
Max. Input Voltage	[V <sub>DC</sub> ]	600	N/A	
Start Input Voltage / MPP Voltage Range	[V]	120/90 to 550	N/A	
Number of Independent MPPTs	LYJ	2	N/A	
Number of Independent MPPTS  Number of DC Input Pairs per MPPT		1	N/A N/A	
Max. Input Current per MPPT/				
Max. Short Circuit Current per MPPT	[A]	15/20	N/A	
DC Connection Type		MC4	N/A	
GRID DATA (AC)				
Max. Apparent Power/Rated Output Power	[kVA/kW]	5 (4.6 for DE)/5 (4.6 for DE)		
Nominal Voltage / Range	[V]	230/184 to 264		
Nominal Grid Frequency/Range	[Hz]	50, 60/-5Hz to +5Hz		
Feed-in Phase/Connection Phase		Single/Single		
Nominal Current/Max. Current/Max. Over-Current Protect	ion [A]	21.7/25/30 (20/25/30 for DE)		
Power Factor Range		0.95 lagging to 0.95 leading		
Total Harmonic Distortion	[%]	≤ 5		
BACKUP POWER OUTPUT (ALTERNATING CURRE	NT)			
Connection Phase	141/	Cinal	0	
Connection Filase		Single 3.3 to 4.5/3.3 to 4.5 @ 1 Battery Pack		
Rated Apparent Power/Rated Power (only Battery)	[kVA/kW]	5 (4.6 for DE)/5 (4.6 for DE) @ 2, 3 Battery Pack		
Rated Apparent Power/Rated Power (with PV)	[kVA/kW]	5 (4.6 for DE)/5 (4.6 for DE) (max)		
Rated Voltage	[V]	230		
Rated Voltage Rated Frequency	[Hz]	50, 60		
Switch Over Time to Backup Power	[1 14]	less than 0.1 seconds		
Support by PV during Backup Power Operation		YES N/A		
Support by FV during backup Fower Operation		I LO	IN/A	
EFFICIENCY				
MPPT Efficiency	[%]	99.9	N/A	
Max. Efficiency (PV to Grid)	[%]	97	N/A	
Max. Efficiency (PV to Battery)	[%]	97.8	N/A	
Max. Efficiency (Battery to Grid)	[%]	96.3	96.3	
	6.10			
BATTERY UNIT (DC)				
Battery Technology		Lithium-ion NCA (Samsung SDI)		
Battery Energy	[kWh]	6.8/13.7/20.5 (6.86 kWh/pack)		
Battery Usable Energy	[kWh]	6.5/13.0/19.5 (6.51kWh/pack)		
Max. Charge Power/Max. Discharge Power	[kW]	4.6/4.6 (DE) 5/5 (Others)		
Max. Charge Power/Max. Discharge Power (PV)	[kW]	5/4.6 (DE) 5/5 (Others)		
Converter Technology		Non-isolated		
Rated Battery Voltage / Battery Voltage Range	[V <sub>DC</sub> ]	202.8/168.0 to 228.2		
Maximum Charge / Discharge Current	[A]	16.9/20 (for each Q.SAVE unit)		
Depth of Discharge (DoD)	[%]	95		
CERTIFICATES AND APPROVALS				
Inverter Model Name		Q.VOLT H4.6S	Q.VOLT A4.6S	



 $<sup>\</sup>ensuremath{^*}$  For details about warranty, refer to the warranty document.