

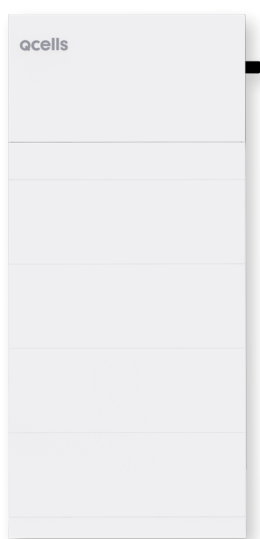
# Q.HOME CORE

## Residential Energy Storage Solution



H3S/H7S : DC or AC-coupled

MODEL Q.VOLT H3.8/7.6SX | Q.SAVE D10.0/15.0/20.0SX | Q.HOME HUB 200SX



Q.VOLT & Q.SAVE



Q.HOME HUB

### Better Energy. One Powerful Partner.

Security that protects against uncertainty. Power you can rely on. Design that scales to your needs.



#### Peace of Mind

One Brand. One Warrantor. Backed by Qcells' inclusive 12 years standard product warranty with best-in-class customer support.



#### Compact Design and Sleek Appeal

Save floor space with a single battery and inverter integrated into one tower with a modern, very thin profile.



#### Smart Design and Scalable Solutions

Parallel stacking so you can scale the system to the size your home needs.



#### Safety and Reliability

2023/2020 NEC rapid shutdown compliant system with integrated PLC transmitter.



#### Simplified Installation and Commissioning

Smart commissioning via a web browser or mobile app, and remote diagnostics for issue resolution.



#### Ideal Complete Solution to Fit Your Lifestyle

Q.VOLT, Q.SAVE and Q.HOME HUB pair perfectly with Qcells' #1 residential solar panels\* for a full suite of clean energy solutions for any home.

\*Wood Mackenzie U.S. PV Leaderboard for 16 consecutive quarters in the residential segment.

# Q.HOME CORE

## Q.VOLT H3.8/7.6SX



- Up to 200% oversizing allowed
- Up to 3 MPPTs
- Maximum 16 A PV input current
- Microgrid supported
- Peak efficiency: 98%
- Integrated arc fault protection and rapid shutdown transmitter

## Q.SAVE D10.0/15.0/20.0SX

- Long life & safe LFP battery
- Up to four 5 kWh stackable batteries, 20 kWh maximum
- Modular design & quick installation
- Floor or wall mounted

## Q.HOME HUB 200SX



- Maximum 200 A AC current
- Flexible home backup
- Built-in energy management meter

## ■ Q.VOLT H3.8/7.6SX

		Q.VOLT H3.8SX	Q.VOLT H7.6SX
<b>INPUT PV</b>			
Maximum PV power	[W]	7600	15200
Max DC Power Input*	[W]	5700	11400
Maximum DC voltage	[V]		550
Nominal DC operating voltage	[V]		360
Maximum input current	[A]	A: 16/B: 16	A: 16/B: 16/C: 16
Maximum short circuit current	[A]	A: 20/B: 20	A: 20/B: 20/C: 20
MPPT voltage range	[V]		90 to 500
Start input voltage	[V]		120
No. of MPP trackers, Strings per MPP tracker		2, 1	3, 1
DC disconnection switch			YES
* Maximum usable PV energy to inverter and battery.			
<b>INPUT / OUTPUT AC</b>			
Nominal AC power	[VA]	3816	7608
Maximum continuous AC power	[VA]	3816	7608
Nominal AC voltage / Nominal AC frequency	[V/Hz]		240/60
Maximum continuous AC current	[A]	15.9	31.7
Output power factor rating			>0.99, ±0.8 leading / lagging
Total harmonic distortion (THD, rated power)	[%]		< 3
<b>INPUT / OUTPUT BATTERY</b>			
Battery type			Li-ion (LFP)
Maximum output power	[W]	3816	7600
Maximum charge / discharge current	[A]		54
Reverse-polarity protection			YES
Cycle efficiency charging to discharging	[%]	88.5	92.5
<b>ADDITIONAL FEATURES</b>			
AFCI			YES
Rapid shutdown transmitter		Integrated PLC Rapid Shutdown Transmitter *Compatible with Qcells RSD-D Receivers	
<b>EFFICIENCY</b>			
CEC weighted efficiency	[%]		97.50
Maximum inverter efficiency	[%]		98.00
<b>POWER CONSUMPTION</b>			
Internal consumption (night)	[W]		< 3
<b>STANDARD</b>			
Safety		UL1741-SB, 3rd edition, PCS-import only, UL1699B, CSA – C22.2 IEEE 1547-2018 *This product is UL Listed as PV rapid shutdown equipment and conforms with NEC 2020, and NEC 2023 section 690.12 and C22.1-2018 Rule 64-218 rapid shutdown of PV Systems, for AC and DC conductors, when installed according to the instructions.	
Emissions		FCC Part 15 Class B	
Grid connection standards		CA Rule 21, Rule 14 (H)	
Revenue grade metering		ANSI C12.20	
<b>INSTALLATION SPECIFICATIONS</b>			
Protection class		NEMA 4X	
Operating temperature range	[°F/°C]	-13 to +140 / -25 to +60	
De-rating start temperature	[°F/°C]	113/45 or above	
Storage temperature range	[°F/°C]	-13 to +167 / -25 to +75	
Relative humidity	[%]	0 to 95	
Altitude	[ft/m]	9843/3000 MAX	
Typical noise emission	[dBA]	< 30	
Over voltage category		IV (electric supply side), II (PV side)	
<b>GENERAL</b>			
Dimensions (W × H × D)	[in/mm]	33.1 × 15.7 × 5.7/840 × 400 × 145	
Weight	[lb/Kg]	75/34	
Cooling		Natural convection	
Topology		Transformerless	
Communication interfaces		RS485, CAN, WIFI/Dry Contact	
Warranty		12 years standard	

## ■ Q.SAVE D10.0/15.0/20.0SX

		Q.SAVE D10.0SX	Q.SAVE D15.0SX	Q.SAVE D20.0SX
<b>MODEL</b>				
Battery type			100Ah Lithium (LFP)	
Component		BMS-G2 + 2*BAT50-G2	BMS-G2 + 3*BAT50-G2	BMS-G2 + 4*BAT50-G2
<b>NOMINAL CHARACTER</b>				
Voltage	[V]	102.4	153.6	204.8
Operating voltage range	[V]	90 to 116	135 to 174	180 to 232
Total energy	[kWh]	10	15	20
Usable energy*	[kWh]	9	13.5	18
Battery roundtrip efficiency**	[%]		95	
Maximum power	[kW]	5.5	8.3	11.1
Maximum charge / discharge current	[A]		54	
C rating			0.54 C	
Cycle life (90% DOD)			6000 cycles	
Warranty			12 years standard	

\* Test Conditions: 90% DOD, 0.2C charge & discharge at +25°C.

\*\* Maximum Charge / Discharge power may be variant with different inverter models.

<b>INSTALLATION SPECIFICATIONS</b>				
Charge / Discharge temperature range	[°F / °C]	Charge: 32 to 127.4 / 0 to 53, Discharge: 14 to 127.4 / -10 to 53		
Storage temperature range	[°F / °C]	3 months: 4 to 122 / -20 to 50, 1 year: 32 to 104 / 0 to 40		
Relative humidity	[%]	0 to 100		
Altitude	[ft / m]	9843 / 3000 MAX		
Protection class		NEMA 4X		
<b>STANDARD</b>				
Certification		UN38.3, UL1642, UL1973, UL9540, UL9540A		
Hazardous materials classification		Class 9		

<b>GENERAL</b>				
Cooling		Natural convection		
Dimensions (W × H × D) - BMS-G2	[in / mm]	33.5 × 5.2 × 5.8 / 850 × 133 × 148		
Dimensions (W × H × D) - BAT50-G2	[in / mm]	33.5 × 23.6 × 5.8 / 850 × 600 × 148	33.5 × 35.4 × 5.8 / 850 × 900 × 148	33.5 × 47.2 × 5.8 / 850 × 1200 × 148
Dimensions (W × H × D) - Base	[in / mm]	33.5 × 2.2 × 5.8 / 850 × 55 × 148		
Weight	[lb / kg]	BMS-G2: 22 / 10 + (2) BAT50-G2: 238 / 108	BMS-G2: 22 / 10 + (3) BAT50-G2: 357 / 162	BMS-G2: 22 / 10 + (4) BAT50-G2: 476 / 216

## ■ Q.HOME HUB 200SX

<b>GRID INPUT</b>				
Nominal AC input voltage / Nominal AC frequency	[V / Hz]	120 / 240, 60		
Maximum AC input current	[A]	160		
<b>OUTPUT TO MAIN PANEL IN GRID TIED OPERATION</b>				
Nominal AC output voltage	[V]	120 / 240		
Maximum AC input current	[A]	160		
<b>OUTPUT IN BACKUP OPERATION</b>				
Nominal AC output voltage	[V]	120 / 240		
Imbalance compensation in backup operation	[VA]	5000		
Split phase imbalance output current	[A]	41.7		
Grid-loss switchover time	[ms]	~200 (single Q.VOLT inverter) / ~600 (parallel stacked & AC-coupled configurations)		
<b>GENERAL</b>				
Dimensions (H × W × D)	[in / mm]	27.8 × 17.7 × 5.9 / 706 × 450 × 15		
Weight	[lb / Kg]	69.4 / 31.5		
Energy meter accuracy	[%]	1		
Communication interfaces		RS485, CAN, Dry Contact		
Cooling		Fan		
Warranty		12 years standard		
<b>STANDARD</b>				
Safety		UL1741, CSA 22.2 NO.107		
Emissions		FCC part 15 Class B		
<b>INSTALLATION SPECIFICATIONS</b>				
Altitude	[ft / m]	9843 / 3000 MAX		
Operating temperature range	[°F / °C]	-13 to +140 / -25 to +60		
Protection class		NEMA 3R		
Typical noise emission	[dBA]	< 50		

## ■ Qualifications and Certificates



Qcells pursues minimizing paper output in consideration of the global environment.

Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product.

Qcells North America 300 Spectrum Center Drive, Suite 500, Irvine CA, 92618 USA | TEL: +1 949 748 5996 | EMAIL: na.support@qcells.com | WEB: www.qcells.com/us

qcells