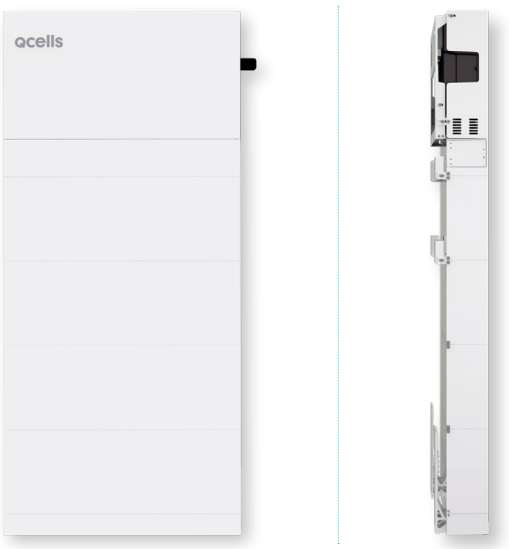
Q.HOME CORE

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 (extendable to 15 years) on Q.HOME CORE components, with best-in-class customer support.

Smart Design and Scalable Solutions

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

Simplified Installation and Commissioning

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

Compact Design and Sleek Appeal

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

Safety and Reliability

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

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	Q.SAVE D10.0/15.0/20.0SX	Q.HOME HUB 200SX
	• Up to 200% oversizing allowed • Up to 3 MPPTs • Maximum 16A PV input current • Microgrid supported • Peak efficiency: 98% • Integrated arc fault protection and rapid shutdown transmitter	• Long life & safe LFP battery • Up to four 5kWh stackable batteries, 20kWh maximum • Modular design & quick installation • Floor or wall mounted
	• Maximum 200A AC current • Flexible home backup • Built-in energy management meter	

Q.VOLT H3.8/7.6SX

		Q.VOLT H3.8SX	Q.VOLT H7.6SX
INPUT PV			
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.			
INPUT/OUTPUT AC			
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	
INPUT/OUTPUT BATTERY			
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
ADDITIONAL FEATURES			
AFCI		YES	
Rapid shutdown transmitter		Integrated PLC Rapid Shutdown Transmitter *Compatible with Qcells RSD-D Receivers	
EFFICIENCY			
CEC weighted efficiency	[%]	97.50	
Maximum inverter efficiency	[%]	98.00	
POWER CONSUMPTION			
Internal consumption (night)	[W]	< 3	
STANDARD			
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 (HI)	
Revenue grade metering		ANSI C12.20	
INSTALLATION SPECIFICATIONS			
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)	
GENERAL			
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, extendable to 15 years	

Q.SAVE D10.0 / 15.0 / 20.0SX

		Q.SAVE D10.0SX	Q.SAVE D15.0SX	Q.SAVE D20.0SX
MODEL				
Battery type			100Ah Lithium (LFP)	
Component		BMS-G2 + 2*BAT50-G2	BMS-G2 + 3*BAT50-G2	BMS-G2 + 4*BAT50-G2
NOMINAL CHARACTER				
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, extendable to 15 years	

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

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

INSTALLATION SPECIFICATIONS				
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		
STANDARD				
Certification		UN38.3, UL1642, UL1973, UL9540, UL9540A		
Hazardous materials classification		Class 9		
GENERAL				
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

GRID INPUT		
Nominal AC input voltage / Nominal AC frequency	[V / Hz]	120 / 240, 60
Maximum AC input current	[A]	160
OUTPUT TO MAIN PANEL IN GRID TIED OPERATION		
Nominal AC output voltage	[V]	120 / 240
Maximum AC input current	[A]	160
OUTPUT IN BACKUP OPERATION		
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)
GENERAL		
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, extendable to 15 years
STANDARD		
Safety		UL1741, CSA 22.2 NO.107
Emissions		FCC part 15 Class B
INSTALLATION SPECIFICATIONS		
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

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

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