# 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 / 200SX PRO


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 | Q.SAVE D10.0 / 15.0 / 20.0SX | Q.HOME HUB 200SX / 200SX PRO |
|---|---|---|
|  | • Long life & safe LFP battery<br>• Up to four 5 kWh stackable batteries, 20 kWh maximum<br>• Modular design & quick installation<br>• Floor or wall mounted |  |
| • Up to 200 % oversizing allowed<br>• Up to 3 MPPTs<br>• Maximum 16 A PV input current<br>• Microgrid supported<br>• Peak efficiency: 98 %<br>• Integrated arc fault protection and rapid shutdown transmitter | | • Maximum 200 A AC current<br>• Flexible home backup<br>• 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 or APsmart 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 | |
| Emissions | | FCC Part 15 Class B | |
| Grid connection standards | | CA Rule 21, Rule 14 (HI) | |
| Revenue grade metering | | ANSI C12.20 | |
| *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. | | | |
| **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) | |
| *With the battery heating feature enabled, the minimum operating temperature is –22 °F (–30 °C) if PV is connected directly, or –4 °F (–20 °C) if PV is AC-coupled. | | | |
| **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 | |

## 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 | |

* 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 | | |

*With the battery heating featuare enabled, the minimum operating temperature is −22 °F (−30 °C) if PV is connected directly, or −4 °F (−20 °C) if PV is AC-coupled.

| | | | | |
|---|---|---|---|---|
| **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)<br>BAT50-G2: 238 / 108 | BMS-G2: 22 / 10 + (3)<br>BAT50-G2: 357 / 162 | BMS-G2: 22 / 10 + (4)<br>BAT50-G2: 476 / 216 |

## Q.HOME HUB 200SX/200SX PRO

| GRID INPUT | | HUB 200SX | HUB 200SX PRO |
|---|---|---|---|
| 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 | 120/240 |
| Imbalance compensation in backup operation | [VA] | 5000 | 5000 |
| Split phase imbalance output current | [A] | 41.7 | 41.7 |
| Maximum AC output current | [A] | 126.8 | 160 |
| **GENERATOR INTEGRATION** | | | |
| Maximum Rated AC Power | [W] | 15120 | 24000 |
| Maximum Continuous Input Current | [A] | 63 | 100 |
| Maximum Over Current Protection Device | [A] | 80 | 125 |
| **SMART LOAD** | | | |
| Number of "Maximum Smart Load 80A" branch [120V] | | | 2 |
| Number of "Maximum Smart Load 50A" branch [120V] | | | 4 |
| Combine 120V branches to 240V | | | Yes |
| **GENERAL** | | | |
| Dimensions (H × W × D) | [in/mm] | 27.8 × 17.7 × 5.9/706 × 450 × 15 | 32 × 22 × 7.3/813 × 559 × 185 |
| Weight | [lb/Kg] | 69.4/31.5 | 100.3/45.5 |
| Energy meter accuracy | [%] | 1 | 1 |
| Communication interfaces | | RS485, CAN, Dry Contact | RS485, CAN, Dry Contact |
| Cooling | | Fan | Fan |
| Warranty | | 10 years | 12 years |
| **STANDARD** | | | |
| Safety | | UL1741, UL67, UL869A, 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

FC UL LISTED





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

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