

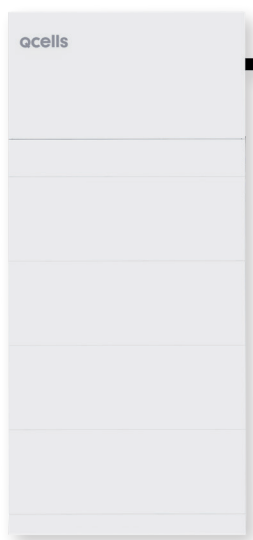
# Q.HOME CORE

## 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 10-year product warranty on all 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

Integrated module-level rapid shutdown solution.



#### 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 for 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 recommended PV power                 | [W]     | 7600  | 15200                                     |
| Maximum DC voltage                           | [V]     |   | 550                                       |
| Normal 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, 1/1  | 3, 1/1                                    |
| DC disconnection switch                      |         |   | YES                                       |
| <b>INPUT / OUTPUT AC</b>                     |         |   |   |
| Nominal AC power                             | [VA]    | 3816  | 7608                                      |
| Maximum apparent AC power                    | [VA]    | 3816  | 7608                                      |
| Nominal AC voltage / Nominal AC frequency    | [V/Hz]  |   | 240/60                                    |
| Nominal AC current                           | [A]     | 15.9  | 31.7                                      |
| Displacement power factor                    |         |   | 0.8 leading to 0.8 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 |
| <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, UL1741 SA, UL1699B, CSA - C22.2 No. 1071-01, Canadian AFCl according to T.I.L. M-07 |   |
| Emissions                                    |         | FCC Part 15 Class B   |   |
| Grid connection standards                    |         | IEEE1547, UL 1741 SB, CA Rule 21, Rule 14 (HI)  |   |
| 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] | 331 × 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                                     |         | 10 years  |   |

## ■ 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                                       |  |
| Cycle life (90% DOD)   |         |   | 6000 cycles                              |  |
| Warranty   |         |   | 10 years                                 |  |
| * 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, 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/<br>850 × 600 × 148                         | 33.5 × 35.4 × 5.8/<br>850 × 900 × 148    | 33.5 × 47.2 × 5.8/<br>850 × 600 × 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

|  |         |                                  |  |  |
|--|---------|----------------------------------|--|--|
| <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 TO MAIN PANEL 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                             |  |  |
| Maximum AC output current                          | [A]     | 126.8                            |  |  |
| <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   |         | 10 years                         |  |  |
| <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                             |  |  |

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.  
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