

**Home Energy Resilience.**

**Under One Roof.**



### **Q.HOME CORE G3**

Q.HOME CORE A7.6B13.1 US.1

# **Q.HOME CORE G3**

Residential  
Energy Storage Solution



#### **PCS certified AC-coupled ESS**

- Fully compatible with Qcells' Q.HOME SMART AC system
- Integrated with Q.TRON AC, Q.PEAK DUO AC, Q.HOME COMBINER and Q.HOME HUB G3
- Monitoring & control functionality in a single app (Q.OMMAND)



#### **Durable, resilient & intuitive**

- 7.6 kW backup power to serve loads
- Durable LFP battery by LG Energy Solution
- Easy-to-read LED status indicator
- Quiet system operation ( $\leq 20$  dB(A) @1m)
- Storm Protect feature quickly alerts customer ahead of potential backup needs during weather events



#### **Flexible system design**

- Up to 15.2 kW/26.24 kWh extended energy capacity
- Connected via LAN, Cellular or Wi-Fi
- Wall and floor mounting supported
- Suitable for a variety of installation environments
- Generator integration supported



#### **Easy and fast installation**

- Streamlined system commissioning via Q.OMMAND PRO, with post-installation remote diagnostic support
- No special handling tools needed for lifting and mounting



#### **Backed by one trusted partner**

- One brand, one warrantor and best-in-class customer support
- Inclusive 15-year product or 68 MWh battery energy throughput warranty
- Automatic over-the-air (OTA) firmware updates



#### **Competitive financing**

- The solar industry's first financing option backed by a manufacturer
- Synergistic product rebates available when pairing Q.HOME CORE G3 with EnFin financing

**Qcells**

## ■ Description

Q.HOME CORE G3 provides 7.6 kW of power and 13.12 kWh of stored energy, with the ability to expand up to one additional Q.HOME CORE G3 cabinet, providing 15.2 kW of power and 26.24 kWh when installed with Q.HOME HUB G3. Q.HOME CORE G3 is a stationary energy storage system, and shall be installed in accordance with industry best practices for permanently installed equipment. When installed in the Grid Support configuration (without the Q.HOME HUB G3) the system does not support off-grid operation or parallel operation of 2 units, but can be programmed to coordinate operation with the Q.TRON AC/Q.PEAK DUO AC Modules. For customer support, please call 1 (888) 249-7750 or email na.support@qcells.com.

## ■ Technical Specifications

| GENERAL PRODUCT INFORMATION                |       |                                             |
|--------------------------------------------|-------|---------------------------------------------|
| System Model Name                          |       | Q.HOME CORE A7.6B13.1 US.1                  |
| Coupling                                   |       | AC Coupled                                  |
| Dimensions                                 | [in]  | 22.4 x 60.0 x 10.4 (570 x 1,525 x 265 mm)   |
| Weight Q.HOME CORE A7.6B13.1 US.1 Complete | [lbs] | 398 (180.5 kg)                              |
| Weight Without Batteries                   | [lbs] | 133.3 (60.5 kg)                             |
| Batteries (4 Battery Packs)                | [lbs] | 264.7 (120 kg) / 4 x 66.17 (4 x 30 kg)      |
| Wall Bracket Weight                        | [lbs] | 11 (5 kg)                                   |
| Operating Temperature Range                | [°F]  | 14 to 113 (-10 to 45 °C)/Non-condensing     |
| Storage Temperature Range                  | [°F]  | -4 to 113 (-20 to 45 °C)/Non-condensing     |
| Relative Humidity                          | [%]   | 5 to 95                                     |
| Enclosure Protection Rating                |       | IP65 (Type 4)                               |
| Seismic Rating                             |       | IEEE 693-2005                               |
| Mounting                                   |       | Wall & Floor Mount                          |
| Altitude                                   | [ft]  | ≤ 6,562 (2,000 m)                           |
| Cooling Method                             |       | Natural Convection                          |
| Product Warranty                           |       | 15 years                                    |
| Energy Throughput Warranty                 |       | 68 MWh                                      |
| Noise Emissions                            |       | ≤ 20 dB (A) @ 1m (Optimal)                  |
| Overvoltage Category                       |       | IV                                          |
| Pollution Degree                           |       | PD2                                         |
| Communications                             |       | LAN, CAN, Wi-Fi, Cellular (Optional)        |
| Remote Monitoring                          |       | Q.OMMAND Web & APP                          |
| Firmware Update                            |       | Online (Over-the-Air)                       |
| Operation Modes                            |       | Self-consumption, Time of Use, Limit Export |
| Storm Protect                              |       | Yes*                                        |
| Generator Integration                      |       | Yes*                                        |

\* Storm Protect and Generator Integration are available with Q.HOME HUB G3.

| SYSTEM                               |       |                                                                                                                                                                                                     |                                                                                                   |
|--------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| System Battery Size                  | [kWh] | 13.12                                                                                                                                                                                               | 26.24                                                                                             |
| Component                            |       | 1 x Q.HOME CORE G3                                                                                                                                                                                  | 2 x Q.HOME CORE G3                                                                                |
| Connectible Maximum PV Inverter Size |       | Q.TRON AC (430 W-DC/349 W-AC) Up to 44 pcs (18.92 kW-DC, 15.36 kW-AC) Q.PEAK DUO AC (410 W-DC/349 W-AC) Up to 44 pcs (18.92 kW-DC, 15.36 kW-AC) 3 <sup>rd</sup> Party PV Inverter Up to 15.36 kW-AC | Up to 44 pcs (18.92 kW-DC, 15.36 kW-AC) Up to 44 pcs (18.92 kW-DC, 15.36 kW-AC) Up to 15.36 kW-AC |

| GRID DATA (AC)                         |          |                           |                           |
|----------------------------------------|----------|---------------------------|---------------------------|
| Max. Apparent Power/Rated Output Power | [kVA/kW] | 7.6/7.6                   | 15.2/15.2                 |
| Nominal Voltage/Range                  | [V]      | 240/211 to 264 (L1 to L2) | 240/211 to 264 (L1 to L2) |
| Nominal Grid Frequency                 | [Hz]     | 60                        | 60                        |
| Grid Type                              |          | 1P2W*                     | 1P2W*                     |
| Maximum Continuous Current             | [A]      | 31.7 @240 Vac             | 31.7 @240 Vac             |
| Power Factor Range                     |          | -0.8 to 0.8               | -0.8 to 0.8               |
| CEC Efficiency                         | [%]      | 97                        | 97                        |
| Round Trip Efficiency (System)         | [%]      | 89.7                      | 89.7                      |

\* Split phase is created with Q.HOME HUB G3.

| BACKUP POWER OUTPUT (AC)                  |            |             |             |
|-------------------------------------------|------------|-------------|-------------|
| Rated Maximum Apparent/Rated Output Power | [kVA/kW]   | 7.6/7.6     | 15.2/15.2   |
| Load Start Capability                     | [LRA_RMS]  | 44.3        | 88.7        |
|                                           | [LRA_Peak] | 62.7        | 125.4       |
| Peak Power Backup – Off-Grid (10 sec)     | [kVA/kW]   | 10.64/10.64 | 21.28/21.28 |
| Grid-Loss Switchover Time                 | [ms]       | ~ 250       | ~ 250       |
| Rated Voltage                             | [V]        | 240         | 240         |
| Rated Frequency                           | [Hz]       | 60          | 60          |

| BATTERY UNIT (DC)                           |       |                              |                              |
|---------------------------------------------|-------|------------------------------|------------------------------|
| Battery Type                                |       | LFP (Lithium Iron Phosphate) | LFP (Lithium Iron Phosphate) |
| Battery Pack Manufacturer                   |       | LG Energy Solution           | LG Energy Solution           |
| Battery Total Energy                        | [kWh] | 13.12                        | 26.24                        |
| Battery Usable Energy                       | [kWh] | 12.46 (DoD 95%)              | 24.92 (DoD 95%)              |
| Rated Battery Voltage/Battery Voltage Range | [V]   | 231.8/180 to 262.8           | 231.8/180 to 262.9           |
| Storage Temperature Range                   | [°F]  | -4 to 113 (-20 to 45 °C)     | -4 to 113 (-20 to 45 °C)     |
| Operating Temperature Range (Environment)   | [°F]  | 14 to 113 (-10 to 45 °C)     | 15 to 113 (-10 to 45 °C)     |

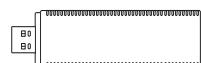
| COMPLIANCE                       |  |                                                                                 |  |
|----------------------------------|--|---------------------------------------------------------------------------------|--|
| Safety                           |  | UL1741, UL3141(UL1741 PCS-CRD), NEC2020, CSA-C22.2N.1071-01, IEC60730-1 Annex.H |  |
| Grid Compliance                  |  | IEEE1547, IEEE1547.1, UL1741SA / SB, HECO Rule14, CA Rule21                     |  |
| Communication (Interoperability) |  | IEEE2030.5                                                                      |  |
| EMC / EMI                        |  | FCC Part 15 Class B                                                             |  |
| Battery                          |  | UL9540, UL9540A, UL1973, UN 38.3                                                |  |
| Seismic Rating                   |  | IEEE 693-2005                                                                   |  |

## ■ Qualifications and Certificates



## ■ Accessories

### Included



WIFI-HQ-DG-USB

Wi-Fi dongle with 2.4 GHz Bandwidth

FCC ID: OZ5C307-HW-WF



WPC-HQ-2024

IP65 cover for Wi-Fi & Cellular dongle

Wi-Fi/Cellular waterproof cover

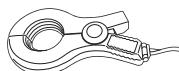
### Not included (purchased separately)



CT-JS-CLAMP-200A-5.2m

Slim clamp-type consumption CT with  $\pm 0.5\%$  accuracy (5.2 m, 20 AWG)

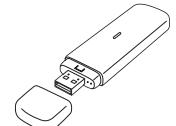
UL2808 (XOBA) E498920



CT-JS-CLAMP-200A-25m

Slim clamp-type consumption CT with  $\pm 0.5\%$  accuracy (25 m, 20 AWG)

UL2808 (XOBA) E498920



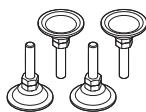
CELLULAR-ZTE-DGASSY-CAT4

Cellular dongle with 5 year data plan (connects via AT&T or T-Mobile networks)



CELLULAR-TN-DP-5Y

5 year data plan extension (for customers previously using cellular option)



Leveling Feet

A pack of 4 leveling feet

## ■ Q.OMMAND PRO App



iOS



Android

**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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**qcells**