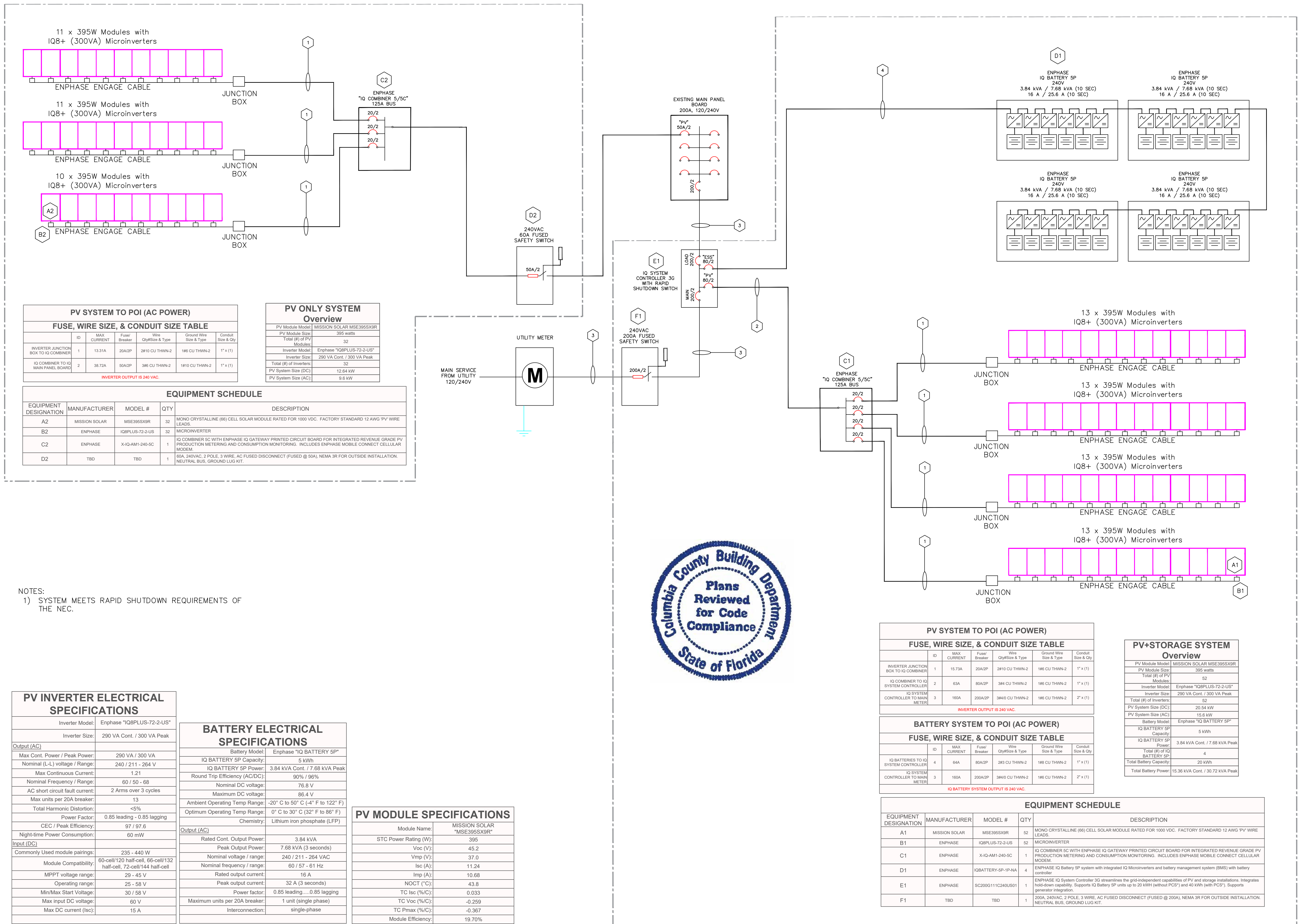


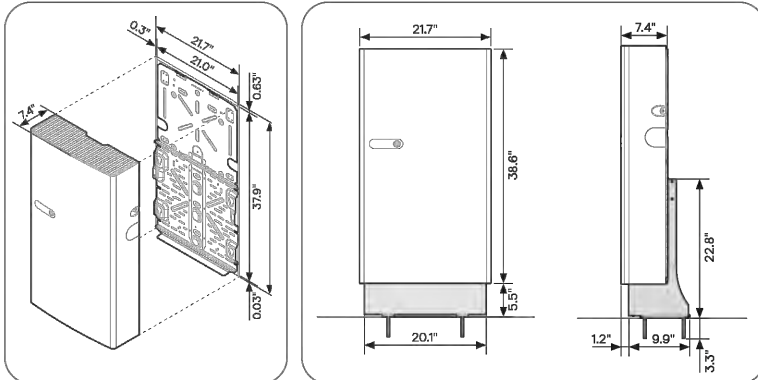




IQ Battery 5P

The IQ Battery 5P all-in-one AC-coupled system is powerful, reliable, simple, and safe. It has a total usable energy capacity of 5.0 kWh and includes six embedded grid-forming microinverters with a 3.84 kVA continuous power rating. It provides backup capability, and installers can quickly design the right system size to meet the customer needs.

Dimensions in inches



Wall mounted

Floor mounted with pedestal (sold separately)



- Powerful**
- Provides 3.84 kVA continuous and 7.68 kVA peak power
 - Doubles the available power per kWh of prior generations of IQ Battery
 - Includes six embedded IQBD-BAT Microinverters

- Reliable**
- 15 years limited warranty
 - Cools passively with no moving parts or fans
 - Uses wired communication for fast and consistent connection
 - Updates software and firmware remotely

- Simple**
- Fully integrated AC battery system
 - Installs and commissions easily
 - Supports Backup, Self-Consumption, and time-of-use (TOU) modes
 - Offers homeowners remote monitoring and control from the Enphase App
 - Field replaceable components

- Safe**
- Evaluated to UL 9540A for large scale fire testing and reduced separation distance as required in 2021 IRC R328.3.1, 2021 FCI 1207.1.5, and 2023 NFPA 855 15.3.1 and 9.1.5.¹
 - Uses lithium iron phosphate (LFP) chemistry for maximum safety and longevity

¹Follow all installation instructions and local codes and measurements of the Authority Having Jurisdiction (AHJ) when installing Enphase ESS.

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IQ Battery 5P

BATTERY	
Total capacity	5.0 kWh
Usable capacity	5.0 kWh
DC round-trip efficiency	96%
Nominal DC voltage	76.8 V
Maximum DC voltage	86.4 V
Ambient operating temperature range (charging)	-20°C to 50°C (-4°F to 122°F) non-condensing
Ambient operating temperature range (discharging)	-20°C to 55°C (-4°F to 131°F) non-condensing
Optimum operating temperature range	0°C to 30°C (32°F to 86°F)
Chemistry	Lithium iron phosphate (LFP)
MECHANICAL DATA	
Dimensions (WxHxD)	980 mm x 550 mm x 188 mm (38.6 in x 21.7 in x 7.4 in)
Lifting weight	66.3 kg (146.1 lbs)
Total installed weight	78.9 kg (174 lbs)
Enclosure	Outdoor-NEMA 3R
IQBD-BAT Microinverter enclosure	NEMA type 6
Cooling	Natural convection
Altitude	Up to 2,500 meters (8,202 feet)
Mounting	Wall-mount or pedestal-mount (sold separately)
FEATURES AND COMPLIANCE	
Compatibility	Compatible with IQ and M Series Microinverters, IQ System Controller 3/3G, IQ Combiner 5/5C, and IQ Gateway for grid-tied and backup operation
Communication	Wired control communication
Services	Backup, Self-Consumption, TOU, and NEM integrity
Monitoring	Enphase Installer Platform and Enphase App monitoring options; API integration
Compliance	CA Rule 21 (UL 1741-SA), IEEE 1547:2018 (UL 1741-SB, 3rd Ed.) CAN/CSA C22.2 No. 1071-18 UL 9540 ¹ , UL 9540A, UN 38.3, UL 9598, UL 991, NEMA Type 3R, AC156 EMC 47 CFR Part 15, Class B, ICES 003 Cell module: UL 9713, UN 38.3 Inverters: UL 62109-1, IEC 62109-2
LIMITED WARRANTY	
Limited warranty	>80% capacity, up to 15 years or 6,000 cycles*

¹ Following local standards, choose a well-ventilated, non-habitable, indoor location (like a 2-car garage) or in an outdoor location, which is out of direct sunlight and where the ambient temperature and humidity are within -4°F to 10°F (-20°C to 45°C) and 5% to 95% RH, non-condensing.

* Wchower occurs first. Restrictions apply.

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IQ System Controller 3/3G

The Enphase IQ System Controller 3/3G connects the home to grid power, the IQ Battery system, and solar PV. It provides microgrid interconnect device (MID) functionality by automatically detecting and seamlessly transitioning the home energy system from grid power to backup power in the event of a grid failure. It consolidates interconnection equipment into a single enclosure and streamlines grid-independent capabilities of PV and storage installations by providing a consistent, pre-wired solution for residential applications.



IQ Series Microinverters

The high-powered smart grid-ready IQ Series Microinverters (M Series, IQ6, IQ7, and IQ8 Series) dramatically simplify the installation process.



IQ Combiner 5/5C

Consolidates PV interconnection equipment into a single enclosure and streamlines IQ Series Microinverters and IQ Gateway installation by providing a consistent, pre-wired solution for residential applications.



IQ Load Controller

Helps prioritize essential appliances during a grid outage to optimize energy consumption and prolong battery life.



IQ Battery 5P

Fully integrated AC battery system. Includes six field-replaceable IQBD-BAT microinverters



IQ System Controller 3/3G

Helps prioritize essential appliances during a grid outage to optimize energy consumption and prolong battery life.

Easy to install

- Connects to service entrance¹ or main load center
- Includes neutral-forming transformer
- Mounts on single stud with centered brackets
- Provides conduit entry from the bottom, left, or right
- Includes color-coded wires for ease of wiring the System Shutdown Switch
- Integrates hold-down functionality to eliminate the need for hold-down kits and special breakers

Flexible

- Can be used for Sunlight Backup, Home Essentials Backup, or Full Energy Independence
- IQ System Controller 3 integrates with IQ Battery 5P
- IQ System Controller 3G integrates with select AC standby generators. See the [Generator integration tech brief](#) for a list of generators
- Provides a seamless transition to backup

Safe and reliable

- System Shutdown Switch can be used to disconnect PV, battery, and generator systems
- System Shutdown Switch acts as a rapid shutdown initiator of grid-forming IQ6 PV Microinverters for the safety of maintenance technicians/first responders
- 10-year limited warranty

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(1) IQ System Controller 3 is not suitable for use as service equipment in Canada.

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IQ System Controller 3/3G

MODEL NUMBER	DESCRIPTION
SC2000G9HC240U501	IQ System Controller 3 streamlines the grid-independent capabilities of PV and storage installations. Integrates hold-down capability. Supports IQ Battery SP units up to 40 kWh (without PCS ¹) and 80 kWh (with PCS ¹). Does not support generator integration.
SC2000G9HC340U501	IQ System Controller 3G streamlines the grid-independent capabilities of PV and storage installations. Integrates hold-down capability. Supports IQ Battery SP units up to 20 kWh (without PCS ¹) and 40 kWh (with PCS ¹). Supports generator integration.
WHAT'S IN THE BOX	
IQ System Controller 3/3G	Includes neutral-forming transformer (NFT) and microgrid interconnect device (MID)
System Shutdown Switch	Includes pre-wired red, black, orange, and purple 12 AWG wire (EP2000-NA-02-RS2)
Wall-mounting bracket	Screws provided in the accessories kit for mounting
4-pole circuit breaker	Pre-installed Quad breaker (BRK-20A40A-4P-240V), 20 A-40 A 10 kAIC, Eaton BQC220240P
Accessories kit	IQ System Controller 3/3G literature kit, including labels, CTRL headers, screws, filler plates, and Quick Install Guide (QIG) (EP2000-LITKIT)
OPTIONAL ACCESSORIES AND REPLACEMENT PARTS	
CT-200-SPLIT	200 A split core current transformers for metering (accuracy: ±2.5%) ²
CT-200-CLAMP	200 A clamp-type current transformers for metering (accuracy: ±2.5%) ²
Main or load circuit breakers (order separately, as needed)*	• BRK-100A-2P-240V: 2-pole, 100A, 25kAIC, CSR2100N or CSR2100 • BRK-125A-2P-240V: 2-pole, 125A, 25kAIC, CSR2125N • BRK-150A-2P-240V: 2-pole, 150A, 25kAIC, CSR2150N • BRK-175A-2P-240V: 2-pole, 175A, 25kAIC, CSR2175N • BRK-200A-2P-240V: 2-pole, 200A, 25kAIC, CSR2200N
Distributed energy resource (DER) circuit breakers (order separately, as needed) ³	• BRK-10A-2P-240V-B: 2-pole, 20 A 10 kAIC, BR220B/BR220 • BRK-10A-2P-240V-B: 2-pole, 30 A 10 kAIC, BR230 • BRK-40A-2P-240V-B: 2-pole, 40 A 10 kAIC, BR240B/BR240 • BRK-40A-2P-240V: 2-pole, 60 A 10 kAIC, BR260 • BRK-80A-2P-240V: 2-pole, 80 A 10 kAIC, BR280
EP2000-HNDL-R1	IQ System Controller 3/3G installation handle kit (order separately)
CTRL-SC3-NA-01	Control cable, 500 ft. spool (order separately)
ALTERNATE DER CIRCUIT BREAKERS	
GE/ABB	THCL21x (20/40/60/80 A)
Siemens	Q2x (20/40/60/80 A)
Siemens (quad breaker)	Q24Q20C72 (20/40 A)
ELECTRICAL SPECIFICATIONS	
Nominal voltage/Range (L-L)	240 V ¹ ±1%/±20%
Voltage measurement accuracy	±1% V nominal (±1.2V L-N and ±2.4V L-L)
Auxiliary (dry) contact for load control, excess PV control, and generator two-wire control	24 V, 1A
Nominal frequency/Range	60 Hz/56–63 Hz
Frequency measurement accuracy	±0.1 Hz
Maximum continuous current rating	160 A
Maximum input overcurrent protection device	200 A
Maximum output overcurrent protection device	200 A
Maximum overcurrent protection device rating for generator circuit	80 A (IQ System Controller 3G only - SC2000G9HC240U500)
Maximum overcurrent protection device rating for storage circuit	2 x 80 A (IQ System Controller 3 - SC2000G9HC240U501), 1 x 80 A (IQ System Controller 3G - SC2000G9HC240U501)

(2) Factory installed quad breaker (Siemens or Eaton). NFT pre-wired to 40 A terminal of the quad breaker.

(3) Two units of CT-200-SPLIT or CT-200-CLAMP must be bought separately for generator integration.

(4) The IQ System Controller 3G rated at 25 kAIC.

(5) Integrated hold-down kit support breakers (BR230/BR230/BR240) without predrilled holes.

(6) Integrated hold-down kit also supports GE/ABB and Siemens as mentioned under section alternate DER circuit breakers.

(B) "-" indicates alternating current (AC) supply.

(*) Power Control System.

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L.C. TRUCKING ROOF MOUNT SOLAR PV & BATTERY SYSTEM 3452 SW CR 242A Lake City, FL 32024 DATA SHEETS

PE STAMP:



ENGINEER:

David Brueck, P.E.
SC LICENSE # 29008
Certified NABCEP
PV Installer# 042013-17

DRAFTER:

DAVID BRUECK

PROJECT #

2024-05

SHEET:

003

SCALE:

N/A

												D. BRUECK	APRVD
												REVISION DESCRIPTION	
												FOR CONSTRUCTION	
												D. BRUECK	BY
												207/2024	NO DATE

¹Supported in both grid-connected and backup/off-grid operation.

²Power Start capability may vary.

³AC to the battery to AC at 50% power rating.

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