CONDUCTOR SCHEDULE										
TAG	CURRENT CARRYING CONDUCTORS		GROUNDING CONDUCTORS		CONDUIT/RACEWAY		NOTES			
	QTY.	SIZE	INSULATION	QTY.	SIZE	INSULATION	QTY.	SIZE	LOCATION	NOILS
C4	3	4 AWG	THWN-2	1	8 AWG	THWN-2	1	1"	EXTERIOR	2,4
XC	-	-	-	-	-	-	-	-	-	3

- MANUFACTURER PROVIDED, UL LISTED WIRING HARNESS FOR USE ON EXPOSED ROOFS
- CONDUIT SIZE SHOWN IS CODE MINIMUM. LARGER SIZES ARE ALLOWED.
- **EXISTING CONDUCTORS, FIELD VERIFY**
- EQUIPMENT TERMINAL RATING SHALL BE A MINIMUM OF 75°C AT BOTH END OF CONDUCTOR

	ENERGY MANAGEMENT				
	(EXISTING)				
	MAKE	ENPHASE			
MODEL		IQ SYSTEM CONTROLLER 3			
	ENCL. RATING	NEMA 3R			
	VOLT. RATING	240 VOLTS			
DISCONNECT CURR.		200 AMPS			
	UL LIST. (Y/N)	YES			
MAIN RDEAKED (V/NI)		NO			

UPSIZE BATTERY BREAKER TO 80A

MAIN BREAKER RATING

JUNCTION BOX (EXISTING)				
MAKE	SOLADECK			
PROTECT. RATING	NEMA TYPE 3R			
UL LIST. (Y/N)	YES			

DC / AC INVERTER (EXISTING)				
MAKE	ENPHASE			
MODEL	IQ7A-72-2-US			
DC INPUT:				
POWER RANGE (WATTS)	295-460			
MIN/MAX START VOLT.	33 / 58			
OPERATING VOLT. RANGE	18-58			
MAX. CURRENT	15 AMPS			
MODULE COMPATIBILITY	60, 66, & 72 CELL			
AC OUTPUT:				
MAX. POWER	366 WATTS			
NOM. POWER	349 WATTS			
NOM. VOLT.	211-240-264			
MAX. CURR.	1.45 AMPS			
DC DISC. (Y/N)	NO			
RAPID SHUTDOWN (Y/N)	YES			
PROTECT. RATING	NEMA TYPE 6			
UL LIST. (Y/N)	YES			
MAX BRANCH CIRCUIT	11			

IQ LOAD CONTROLLER				
(EXISTING)				
MAKE	ENPHASE			
MODEL	EP-NA-LKO2-040			
ENCL. RATING	NEMA 4X			
UL LIST. (Y/N)	YES			
MAX AMPERAGE	32 A			
MAX VOLTAGE	240 VAC			

	PV COMBINER PANEL				
	(EXISTING)				
1	MAKE ENPHASE				
1	MODEL	X2-IQ-AM1-240-5			
1	INPUT:				
1	MAX BRANCH CIRCUITS	4 TOTAL			
1	BRANCH CIRCUIT OCPD	50.00 AMPS			
1	OUTPUT:				
1	MAX POWER	15600 WATTS			
1	NOM. VOLTAGE	240 VOLTS			
	BUS RATING	125.00 AMPS			
	MAIN BREAKER Y/N	NO			
	ENCL. RATING	NEMA TYPE 3R			
	UL LIST. (Y/N)	YES			

ENERGY STORAGE SYSTEM (EXISTING+NEW) MAKE ENPHASE MODEL 5P USABLE ENERGY 10.08 kWh NOM. VOLT. 240 VOLTS

3.84 kVA

REAL POWER CONT.

UL LIST. (Y/N)	YES
PROTECTION RATING	NEMA 6
D + CL/ED LIB	
BACKED-UP	LOADS PANEL
(EXI	STING)
MAKE	SIEMENS
MODEL	N/A
ENCL. RATING	NEMA TYPE 1
VOLT. RATING	240
BUS RATING	200 AMPS
UL LIST. (Y/N)	YES
MAIN BREAKER (Y/N)	YES
MAIN BREAKER RATING	200 AMPS

	PV MODULE (EXISTING)				
	MAKE	REC			
	MODEL	REC405AA PURE			
	NOM. POWER (PNOM)	405 WATTS			
	NOM. VOLT. (VMPP)	42.4 VOLTS			
	O.C. VOLT (VOC)	48.9 VOLTS			
	MAX. SYS. VOLT.	1000 VOLTS			
	NOM. CURR. (IMPP)	9.6 AMPS			
	S.C. CURR. (ISC)	10.3 AMPS			
	TEMP. COEF. (PMPP)	-0.26 %/C			
	TEMP. COEF. (Voc)	-0.24 %/C			
	MAX SERIES FUSE	25 AMPS			
	UL COMPLIANT (Y/N)	YES			

DVA AODINE (EVICTIVIO)

RSD DEVICE (EXISTING)				
MAKE	ENPHASE			
MODEL	EP200G-NA-02-RSD			
PROTECT. RATING	NEMA TYPE 4X			
UL LIST. (Y/N)	YES			
, in the second				
AC DISCONNECT 'A'				

(EXISTING)

MAKE	GENERIC			
MODEL	NA			
ENCL. RATING	NEMA 3R			
VOLT. RATING	240 VOLTS			
AMP RATING	60 AMPS			
UL LIST. (Y/N)	YES			
FUSED (Y/N)	NO			
FUSE RATING	N/A			
FUSE RATING	N/A			

- LOAD-BREAK RATED
- VISIBLE OPEN
- LOCKABLE IN OPEN POSITION
- INSTALL ADJACENT TO METER
- DISCONNECT TO BE READILY ACCESSIBLE TO UTILITY COMPANY PERSONNEL AT ALL TIMES

AC DISCONNECT 'B' (NEW)

MAKE	GENERIC
MODEL	NA
ENCL. RATING	NEMA 3R
VOLT. RATING	240 VOLTS
AMP RATING	60 AMPS
UL LIST. (Y/N)	YES
FUSED (Y/N)	NO
FUSE RATING	N/A
	•

- LOAD-BREAK RATED
- VISIBLE OPEN
- LOCKABLE IN OPEN POSITION
- INSTALL ADJACENT TO METER
- DISCONNECT TO BE READILY ACCESSIBLE TO UTILITY COMPANY PERSONNEL AT ALL TIMES
- REMOVE EXISTING 60A BATTERY DISCONNECT AND REPLACE WITH A NEW 100A DISCONNECT



JULIE BARAJAS 491 OLD FIELD LOOP SANFORD, NC 27332

PROJECT INFO

DC INPUT: 13.365 kW AC EXPORT: 11.517 kW DOI INSPT. METHOD: OPTION 2

Model Energy

300 Fayetteville St. #1430

Raleigh, NC 27602 919-274-9905 ModelEnergy.com

CODE REFERENCES

NATIONAL ELECTRICAL CODE v. 2017 NC FIRE PROTECTION CODE v. 2018 NC BUILDING CODE v. 2018 NC RESIDENTIAL CODE v. 2018 ACSE v. 7-10

SITE CONDITIONS

WIND SPEED: 116 MPH RISK CATEGORY: EXPOSURE: SNOW: 10 PSF

SHEET INDEX PV-1: COVER SHEET

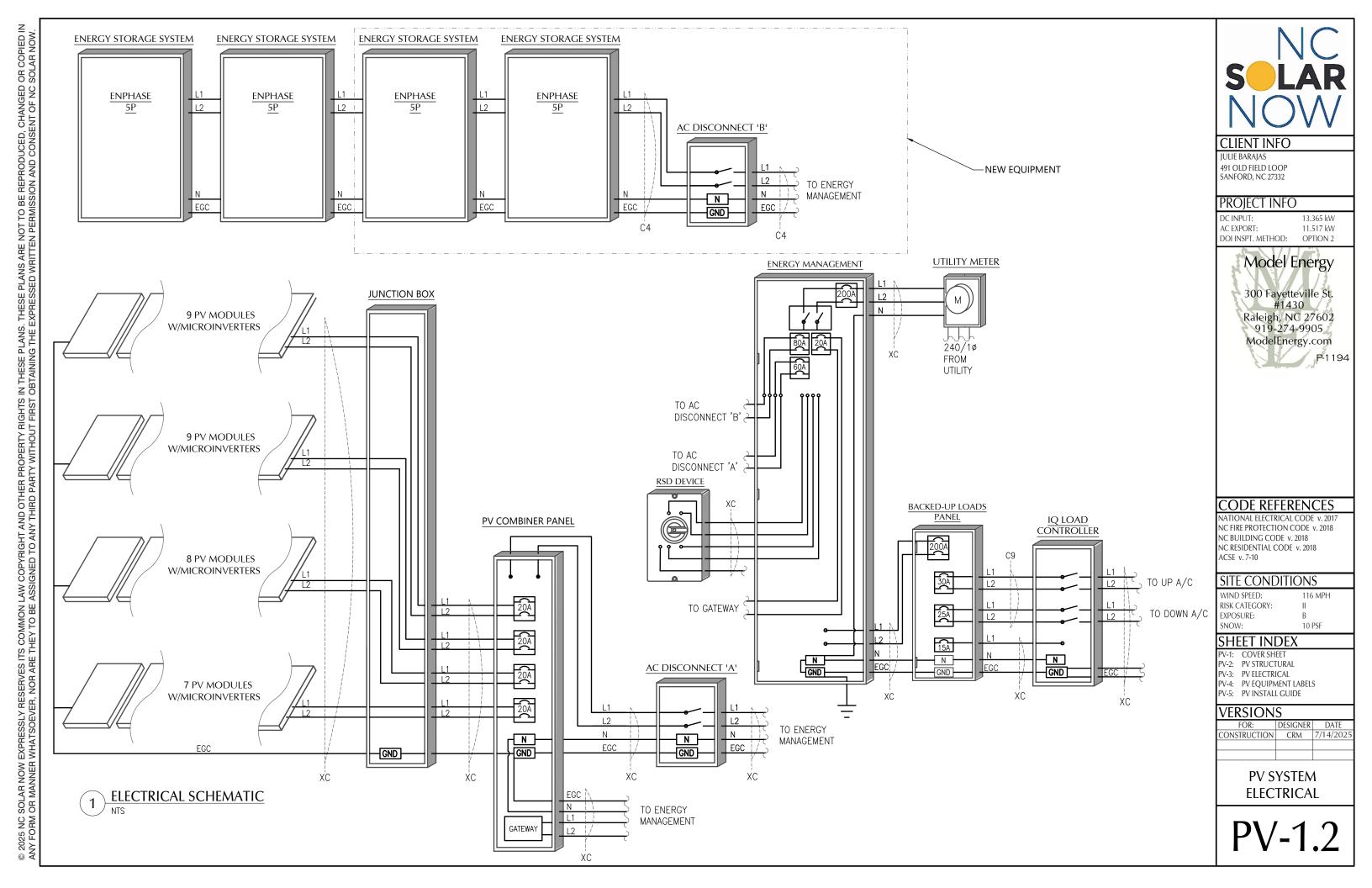
PV-2: PV STRUCTURAL PV-3: PV ELECTRICAL PV-4: PV EQUIPMENT LABELS PV-5: PV INSTALL GUIDE

VERSIONS

FOR:	DESIGNER	DATE
CONSTRUCTION	CRM	7/14/2025

PV SYSTEM ELECTRICAL

PV MATERIAL SUMMARY: DISTRIBUTOR



MARNING

PHOTOVOLTAIC SYSTEM COMBINER PANEL

DO NOT ADD LOADS

NEC 705.12 (C)(3) PLACE ON PV COMBINER PANEL



PLACE ON RSD DEVICE

⚠WARNING ⚠ THREE POWER SOURCES

SOURCES: UTILITY GRID, BATTERY AND PV SOLAR ELECTRIC SYSTEM

NEC 705.12 (B)(3)
PLACE ON ALL EQUIPMENT THAT IS SUPPLIED
BY BOTH POWER SOURCES

SOLAR PV SYSTEM EQUIPPED

WITH RAPID SHUTDOWN

NEC 690.56 (C)(1)(a)

PLACE WITHIN 3FT OF SERVICE DISCONNECTING MEANS TO

WHICH THE PV SYSTEMS ARE CONNECTED AND SHALL INDICATE THE LOCATIONS OF RAPID SHUTDOWN SWITCHES

TURN RAPID SHUTDOWN

SWITCH TO THE

"OFF" POSITION TO SHUT DOWN PV SYSTEM

> AND REDUCE SHOCK HAZARD

IN THE ARRAY

PV SYSTEM DISCONNECT

NEC 690.13 (B)
PLACE ON PV SYSTEM DISCONNECTING MEANS.

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

NEC 690.56 (C)(3)
PLACE ON RAPID SHUTDOWN SWITCH OR EQUIPMENT

SERVICE DISCONNECT LOCATED: PHOTOVOLTAIC S'

BATTERY DISCONNECT LOCATED:

PV DISCONNECT LOCATED:

NEC 705.10 PLACE AT SERVICE EQUIPMENT AND PV SYSTEM DISCONNECTING MEANS. PHOTOVOLTAIC SYSTEM

AC DISCONNECT

OPERATING VOLTAGE

240 VOLTS

OPERATING CURRENT 47.85 AMPS

NEC 690.54
PLACE ON INTERCONNECTION
DISCONNECTING MEANS

∴WARNING

THIS EQUIPMENT FED BY MULTIPLE
SOURCES. TOTAL RATING OF ALL
OVERCURRENT DEVICES EXCLUDING MAIN
SUPPLY OVERCURRENT DEVICE SHALL NOT
EXCEED AMPACITY OF BUSBAR.

NEC 705.12 (B)(2)(3)(c)
PLACE ON PV COMBINER PANEL AND IQ SYSTEM CONTROLLER

LABEL NOTES:

- 1. LABELS SHOWN ARE NOT TO SCALE.
- 2. LABEL MATERIAL SHALL BE SUITABLE FOR THE EQUIPMENT ENVIRONMENT.
- 3. DC CONDUIT SHALL BE MARKED WITH REQUIRED LABEL EVERY 10 FEET.
- 4. PHOTOVOLTAIC SYSTEMS SHALL BE PERMANENTLY MARKED AT VARIOUS EQUIPMENT LOCATIONS TO IDENTIFY THAT A PHOTOVOLTAIC SYSTEM IS INSTALLED AND THAT VARIOUS DANGERS ARE PRESENT.
- EACH PHOTOVOLTAIC SYSTEM DISCONNECTING MEANS SHALL BE PERMANENTLY MARKED TO IDENTIFY IT AS A PHOTOVOLTAIC SYSTEM DISCONNECT.
- 6. WHERE ALL TERMINALS OF A DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION, A WARNING SIGN SHALL BE MOUNTED ON OR ADJACENT TO THE DISCONNECT.
- 7. A PERMANENT LABEL FOR THE DIRECT-CURRENT PHOTOVOLTAIC POWER SOURCE SHALL BE PROVIDED AT THE DC DISCONNECT
- 8. A PERMANENT PLAQUE OR DIRECTORY, DENOTING ALL ELECTRIC POWER SOURCES SERVING THE PREMISES, SHALL BE INSTALLED AT EACH SERVICE EQUIPMENT LOCATION AND AT LOCATIONS OF ALL POWER PRODUCTION SOURCES.
- 9. LABELS WILL BE APPLIED IN ACCORDANCE WITH THE NEC. SOME LABELS SHOWN MAY NOT BE NECESSARY.

WIRING NOTES:

- I. CONDUCTORS SHALL BE COPPER OR ALUMINUM, RATED AT NOT LESS THAN 600 VOLTS
- 2. MINIMUM SIZE SHALL BE #14 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 3. EXPOSED WIRING CONDUCTOR INSULATION SHALL BE TYPE PV WIRE, USE-2, OR RHW-2 WHERE THE OUTER LAYER OF THE INSULATION IS UV, SUNLIGHT, AND MOISTURE RESISTANT. CABLE ASSEMBLIES SHALL BE TYPE DG. BARE CONDUCTORS SHALL BE A MINIMUM OF #6 AWG.
- 4. EXTERIOR WIRING CONDUCTOR INSULATION SHALL BE TYPE THWN-2 AND INSTALLED IN ELECTRICAL METALLIC TUBING(EMT), RIGID POLYVINYL CHLORIDE CONDUIT(PVC), RIGID METALLIC CONDUIT (RMC), LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT (LFMC), OR LIQUIDTIGHT FLEXIBLE NON METALLIX CONDUIT (LFNC). SE-TYPE CABLE CAN BE USED AS AN ALTERNATIVE. ADDITIONAL WIRING METHODS SHALL BE PERMITTED ONLY WHEN IN COMPLIANCE WITH ALL NEC REQUIREMENTS.
- 5. INTERIOR WIRING CONDUCTOR INSULATION SHALL BE TYPE THWN-2 OR XHHW AND INSTALLED IN ELECTRICAL METALLIC TUBING (EMT), FLEXIBLE METAL CONDUIT (FMC), LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC), LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT (LFNC). TYPE SE, NM, AND MC CABLE ASSEMBLIES SHALL ALSO BE PERMITTED. ADDITIONAL WIRING METHODS SHALL BE PERMITTED ONLY WHEN IN COMPLIANCE WITH ALL NEC REQUIREMENTS.
- 6. BURIED WIRING CONDUCTOR INSULATION SHALL BE RATED FOR DIRECT BURIAL WHEN INSTALLED OUTSIDE OF RACEWAY. CONDUCTOR INSULATION SHALL BE TYPE THWN-2 OR XHHW AND INSTALLED IN RIGID PVC, RIGID METALLIC CONDUIT, OR HDPE. ADDITIONAL WIRING METHODS SHALL BE PERMITTED ONLY WHEN IN COMPLIANCE WITH ALL NEC REQUIREMENTS.
- 7. USE SCHEDULE 40 PVC OUTDOORS WHERE NOT SUBJECT TO PHYSICAL DAMAGE OR BELOW FLOOR SLAB. USE SCHEDULE 80 PVC OUTDOORS WHERE SUBJECT TO PHYSICAL DAMAGE
- 8. MINIMUM CONDUIT SIZE TO BE 1/2".
- 9. WIRING METHODS TO CONFORM TO CHAPTER 3 OF THE NEC.

CONSTRUCTION NOTES:

- 1. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE NEC, STATE, AND LOCAL APPLICABLE CODES.
- 2. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS, BEST PRACTICES, AND SPECIFICATIONS.
- 3. ENSURE REQUIRED MAINTENANCE ACCESS AND CLEARANCES ARE
- 4. FUSES 0 600 AMPS SHALL BE UL CLASS "RK-1" LOW PEAK DUAL ELEMENT TIME DELAY WITH 200,000 AMPERE INTERRUPTING RATING A, UNLESS NOTED OTHERWISE.
- 5. ALL TERMINALS, SPLICING CONNECTORS, LUGS, ETC SHALL BE IDENTIFIED FOR USE WITH THE MATERIAL (CU/AL) OF THE CONDUCTOR AND SHALL BE PROPERLY INSTALLED.
- 6. ALL PENETRATIONS THROUGH EXTERIOR ROOFS SHALL BE FLASHED IN A WATERPROOF MANNER.
- ALL PENETRATIONS THROUGH ATTIC FIRE BARRIERS SHALL BE SEALED WITH FIRE-BARRIER SEALANT CAULK.
- 8. SUPPORT ALL CONDUIT AND EQUIPMENT IN ACCORDANCE W/ NEC. ANY SUSPENDED MATERIALS SHALL BE DIRECTLY SUPPORTED BY THE BUILDING STRUCTURE.
- 9. A NORTH CAROLINA REGISTERED DESIGN PROFESSIONAL WILL BE REQUIRED TO SEAL THE STRUCTURAL DESIGN AT THE TIME OF PERMIT APPLICATION IF ANY OF THE FOLLOWING EXIST AND ARE ATTESTED TO BY THE APPLICANT:
 - -THE WEIGHT OF THE PV SYSTEM EXCEEDS THREE (3) POUNDS PER SQUARE FOOT(PSF)
 - -THE ROOF POSSESSES MORE THAN ONE (1) LAYER OF ASPHALT SHINGLES
 - -THE ROOFING MATERIAL CONSISTS OF A TYPE OTHER THAN ASPHALT SHINGLES OR METAL
 - -THE ROOF IS LOCATED IN A 140 MPH OR GREATER WIND ZONE



CLIENT INFO

JULIE BARAJAS 491 OLD FIELD LOOP SANFORD, NC 27332

PROJECT INFO

DC INPUT: 13.365 kW
AC EXPORT: 11.517 kW
DOI INSPT. METHOD: OPTION 2

Model Energy

300 Fayetteville St #1430

> Raleigh, NC 27602 919-274-9905 ModelEnergy.com

> > P-119

CODE REFERENCES

NATIONAL ELECTRICAL CODE v. 2017 NC FIRE PROTECTION CODE v. 2018 NC BUILDING CODE v. 2018 NC RESIDENTIAL CODE v. 2018 ACSE v. 7-10

SITE CONDITIONS

WIND SPEED: 116 MPH
RISK CATEGORY: II
EXPOSURE: B
SNOW: 10 PSF

SHEET INDEX

PV-2: PV STRUCTURAL
PV-3: PV ELECTRICAL
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IVERSIONS

	FOR:	DESIGNER	DATE
C	CONSTRUCTION	CRM	7/14/2025
Г			

PV SYSTEM EQUIPMENT LABELS

PV-2.1

Safety switch, general duty, non fusible, 60A, 2 pole, 10hp, 240VAC, NEMA 3R, bolt on provision

DU222RB

Product availability: Stock - Normally stocked in distribution

facility

Price*: 353.00 USD

wan	
-----	--

Product	Single Throw Safety Switch	
Duty Rating	General duty	
Device Application	Residential	
Disconnect Type	Non-fusible disconnect switch	
Factory Installed Neutral	None	
Phase	3 phase	
Number of Poles	2	
Current Rating	60 A	
Voltage Rating	240 V AC	
Enclosure Rating NEMA	NEMA 3R	
Motor power hp	10 hp at 240 V AC 60 Hz for 1 phase motors	

Complementary

Mounting Type	Surface		
Electrical Connection	Lugs		
Wiring configuration	2 wires		
Wire Size	AWG 12AWG 3 aluminium AWG 14AWG 3 copper		
Tightening torque	35 lbf.in (3.95 N.m) 0.000.01 in² (2.085.26 mm²) (AWG 14AWG 10) 35 lbf.in (3.95 N.m) (AWG 14AWG 10) 45 lbf.in (5.08 N.m) 0.01 in² (8.37 mm²) (AWG 8) 45 lbf.in (5.08 N.m) 0.020.03 in² (12.321.12 mm²) (AWG 6AWG 4) 50 lbf.in (5.65 N.m) 0.04 in² (26.67 mm²) (AWG 3)		
Depth	3.75 in (95.25 mm)		
Width	7.75 in (196.85 mm)		
Height	9.63 in (244.60 mm)		
Net Weight	16.98 lb(US) (7.7 kg)		

Environment

Certifications UL listed file E2875

^{*} Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Ordering and shipping details

Category	00106-D & DU SW,NEMA3R, 30-200A	
Discount Schedule	DE1A	
GTIN	785901491491	
Returnability	Yes	
Country of origin	MX	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.30 in (13.462 cm)
Package 1 Width	7.20 in (18.288 cm)
Package 1 Length	10.00 in (25.4 cm)
Package 1 Weight	4.65 lb(US) (2.109 kg)
Unit Type of Package 2	PAL
Number of Units in Package 2	120
Package 2 Height	36.50 in (92.71 cm)
Package 2 Width	40.00 in (101.6 cm)
Package 2 Length	48.00 in (121.92 cm)
Package 2 Weight	610.00 lb(US) (276.691 kg)
Unit Type of Package 3	CAR
Number of Units in Package 3	5
Package 3 Height	10.70 in (27.178 cm)
Package 3 Width	10.20 in (25.908 cm)
Package 3 Length	23.50 in (59.69 cm)
Package 3 Weight	24.60 lb(US) (11.158 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
PVC free	Yes

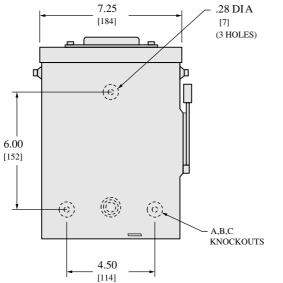
Contractual warranty

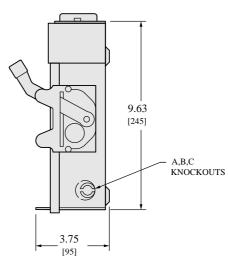
Warranty

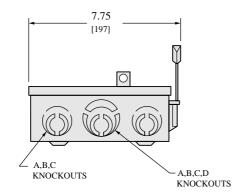
18 months

Technical Illustration

Dimensions







NEMA TYPE 3R

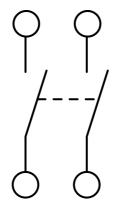
IN. [mm]

KNOCKOUTS				
SYMBOL	A	В	С	D
CONDUIT SIZE (IN.)	.50	.75	1	1.25

TOP OF NEM A TYPE 3R SWITCHES H AVE PROVISIONS FOR MAXIMUM 2 1/2" BO LT-ON HUB. ALL DIMENSIONS ARE APPROXIMATE. REFER TO TECHNICAL DRAWINGS AND DOCUMENTATION.

Technical Illustration

Wiring Diagram



DU222RB

Recommended replacement(s)

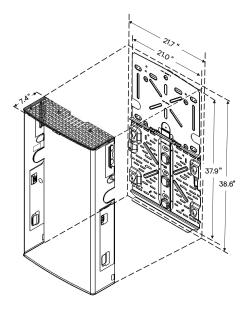


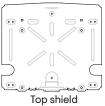


IQ Battery 5P

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





Bottom mounting bracket







LISTED



UL 9540A Certified

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 IQ8D-BAT Microinverters

Reliable

- 15-year 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 IFC 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 when installing Enphase ESS.

IQ Battery 5P

Battery SP unit Destrey SP unit Destrey SP unit (B05-T02-USDD-1-3) Two M5 selection convers for securing the battery on the wall. One top shield is required for UL-984DA SP unit of the bottom mounting bracket of UL-984DA SP unit of UL-	MODEL NUMBER	
Battery SP unit IQ Battery SP unit (805-102-4350-1-3) 2 ower and conduit cover IQ Battery SP cover with two conduit covers for the left and right sides of the unit extrem mounting bracket and top shield Section mounting bracket for mounting the battery on the wall. One top shield is required for UL9540A Yew MS selimic screws for securing the battery on the wall. One top shield is required for UL9540A Yew MS grounding screws for securing the battery on the wall. One totom mounting bracket Web MS grounding screws for securing the battery with on the bottom mounting bracket Web MS ID cover grounding screws for the EMI-EMC requirement Security of the special part of	IQBATTERY-5P-1P-NA	
Decide and conduit cover IO Battery SP cover with two conduit covers for the left and right sides of the unit cottom mounting bracket and top shield Bottom mounting bracket for mounting the battery on the wall. One top shield is required for UL9540A IS desiration screws Two MS seismic screws for securing the battery unit on the bottom mounting bracket If you cover grounding screws for securing the top shield on the bottom mounting bracket If you cover grounding screws for securing the top shield on the bottom mounting bracket If you cover grounding screws for securing the top shield on the bottom mounting bracket If you cover grounding screws for securing the top shield on the bottom mounting bracket If you cover grounding screws for securing the top shield on the bottom mounting bracket If you cover grounding screws for securing the top shield on the bottom mounting bracket If you cover grounding screws for securing the top shield on the bottom mounting bracket If you cover grounding screws for securing the top shield on the bottom mounting bracket If you cover grounding screws for securing the top shield on the bottom mounting bracket If you cover grounding screws for securing the top shield cables to the unit Space CTRL connector without resistor for CTRL wiring Description of C	WHAT'S IN THE BOX	
Bottom mounting bracket and top shield Bottom mounting bracket for mounting the battery on the wall. One top shield is required for UL9540A Tow M5 selemic screws for securing the battery unit on the bottom mounting bracket M6 grounding screws Two M6 grounding screws for securing the top shield on the bottom mounting bracket M6 grounding screws for securing the top shield on the bottom mounting bracket Two M6 grounding screws for securing the top shield on the bottom mounting bracket Two M6 grounding screws for securing the top shield on the bottom mounting bracket Size able ties Size able ties for securing field cables to the unit Two M6 grounding screws for the EMF/EMC requirement Spare CTRL connector without resistor for CTRL wiring Ontrol (CTRL) connector with resistor for CTRL wiring Old for 10 Battery STR (CTRL) connector with resistor for CTRL wiring OS-DRAT-RMA INSENSITY STRIP	IQ Battery 5P unit	IQ Battery 5P unit (B05-T02-US00-1-3)
Two M5 seismic screws 1 Two M5 seismic screws for securing the battery unit on the bottom mounting bracket 1 M5 grounding screws 1 Two M4 grounding screws for securing the top shield on the bottom mounting bracket 1 Two M5 ID cover grounding screws for the EMI/EMC requirement 2 sable ties 2 Six cable ties for securing field cables to the unit 3 scale ties 6 Six cable ties for securing field cables to the unit 4 Six cable ties for securing field cables to the unit 4 Six cable ties (CRL) connector with resistor of CTRL wiring 5 Spare CTRL connector with resistor for CTRL wiring 6 Spare CTRL connector with resistor for CTRL wiring 7 Spare CTRL connector with resistor for CTRL wiring 7 Spare CTRL connector with resistor for CTRL wiring 8 Spare CTRL connector with resistor for CTRL wiring 8 Spare CTRL connector with resistor for CTRL wiring 9 Spare CTRL connector with resistor for CTRL wiring 9 Spare CTRL connector with resistor for CTRL wiring 9 Spare CTRL connector with resistor for CTRL wiring 9 Spare CTRL connector with resistor for CTRL wiring 9 Spare CTRL connector with resistor for CTRL wiring 9 Spare CTRL connector with resistor for CTRL wiring 9 Spare CTRL connector with resistor for Field replacement 1 CPL CTRL wiring 9 Spare CTRL connector with resistor for Field replacement 1 CPL CTRL wiring 10 Spare CTRL connector field replacement 1 CPL CTRL wiring 10 Spare CTRL wiring 10 Spare CTRL connector 1 CPL Spare CTRL wiring 1 Spare CTRL connector 1 CPL Spare CTRL connector 1 C	ID cover and conduit cover	IQ Battery 5P cover with two conduit covers for the left and right sides of the unit
Two M4 grounding screws Two M5 ID cover grounding screws for the EMI/EMC requirement stable ties Six cable ties Six cable ties for securing field cables to the unit Sontrol (CTRL) connector Spare CTRL connector without resistor for CTRL wiring Control (CTRL) connector with resistor Spare CTRL connector without resistor for CTRL wiring Control (CTRL) connector with resistor Spare CTRL connector without resistor for CTRL wiring Control (CTRL) Connector with resistor Spare CTRL connector without resistor for CTRL wiring Control (CTRL) Connector without resistor for CTRL wiring Control CTRL wiring Con	Bottom mounting bracket and top shield	Bottom mounting bracket for mounting the battery on the wall. One top shield is required for UL9540A
Two MS ID cover grounding screws for the EMI/EMC requirement sable ties Six cable ties for securing field cables to the unit CRIL connector with connector with resistor for CRIL wiring chortrol (CRIL) connector with resistor for field replacement 108-105-05-05-0-0-0-0-108 tattery 5P cover for field replacement. Includes one left-side and one right-side condult plate 108-METER/HINDL-5-0-0-0-0-108 tattery 5P will branches for field replacement. Includes one left-side and one right-side iffting handle 108-METER/HINDL-5-0-0-0-0-108 tattery 5P will branches for field replacement 108-METER/HINDL-5-0-0-0-0-108 tattery 5P will branches for field replacement 108-METER/HINDL-5-0-0-0-0-108 tattery 5P control communication board for field replacement 108-METER/HINDL-5-0-0-0-0-108 tattery 5P control communication board for field replacement 108-METER/HINDL-5-0-0-0-0-108 tattery 5P control communication board for field replacement 108-METER/HINDL-5-0-0-0-0-108 tattery 5P control communication board for field replacement 108-METER/HINDL-5-0-0-0-0-108 tattery 5P control communication board fo	M5 seismic screws	Two M5 seismic screws for securing the battery unit on the bottom mounting bracket
Six cable ties Six cable ties Six cable ties or securing field cables to the unit Sontrol (CTRL) connector Spare CTRL connector without resistor for CTRL wiring Did (CTRL) connector with resistor Spare CTRL connector with the sistor for CTRL wiring DIG for IO Battery unit installation instructions PITIONAL ACCESSORIES AND REPLACEMENT PARTS B36-BAT-MA (IOS-DS-AT-MA (IOS-BAT Microinverter for field replacement (IOS-CX-0550-O (IO Battery 5P Battery unit for field replacement (IOS-PC-0550-O (IO Battery 5P cover for field replacement (IOS-PC-0650-O (IOS Battery 5P cover for field replacement (IOS-WB-0530-O (IOS Battery 5P wall bracket for field replacement. Includes one left-side and one right-side conduit plat O5-CX-0550-O (IOS Battery 5P wall bracket for field replacement. Includes one bottom mounting bracket and one top shie O5-MB-0543-O (IOS Battery 5P wall bracket for field replacement. Includes one bottom mounting bracket and one top shie O5-MCF-0680-O (IOS Battery 5P wall bracket for field replacement (IOS-CANB-063-O (IOS Battery 5P wall bracket for field replacement (IOS-CANB-063-O (IOS Battery 5P BMS board for field replacement (IOS-CANB-063-O (IOS Battery 5P BMS board for field replacement (IOS-CANB-063-O (IOS Battery 5P wall bracket for field replacement (IOS Battery 5P control communication board for field replacement (IOS-CANB-063-O (IOS Battery 5P wall bracket for field replacement (IOS Battery 5P wall br	M4 grounding screws	Two M4 grounding screws for securing the top shield on the bottom mounting bracket
Spare CTRL connector without resistor for CTRL wiring Spare CTRL connector with resistor for CTRL wiring Ontrol (CTRL) connector with resistor Spare CTRL connector with resistor for CTRL wiring Old for IQ Battery unit installation instructions PTIONAL ACCESSORIES AND REPLACEMENT PARTS DBD-BAT-RMA IQBD-BAT Microinverter for field replacement OS-CX-0550-O IQ Battery SP Battery unit for field replacement OS-CX-0550-O IQ Battery SP pedestal mount IQ Battery SP pedestal mount IQ Battery SP wall bracket for field replacement. Includes one left-side and one right-side conduit plate OS-WB-0543-O IQ Battery SP wall bracket for field replacement. Includes one left-side and one right-side conduit plate OS-CX-0550-O IQ Battery SP wall bracket for field replacement. Includes one left-side and one right-side conduit plate OS-WB-0543-O IQ Battery SP Wall bracket for field replacement. Includes one left-side and one right-side lifting handle OS-CX-0560-O IQ Battery SP Mall bracket for field replacement. Includes one left-side and one right-side lifting handle OS-CX-0560-O IQ Battery SP Mall bracket for field replacement includes one left-side and one right-side lifting handle OS-CX-0560-O IQ Battery SP Mall bracket for field replacement OS-CX-0560-O IQ Battery SP Mall bracket for field replacement OS-CX-0560-O IQ Battery SP Mall bracket for field replacement OS-CX-0560-O IQ Battery SP Mall bracket for field replacement OS-CX-0560-O IQ Battery SP Mall bracket for field replacement OS-CX-0560-O IQ Battery SP Mall bracket for field replacement OS-CX-0560-O IQ Battery SP Mall bracket for field replacement OS-CX-0560-O IQ Battery SP Mall bracket for field replacement OS-CX-0560-O IQ Battery SP Mall bracket for field replacement OS-CX-0560-O IQ Battery SP Mall bracket for field replacement IQ	M5 ID cover grounding screws	Two M5 ID cover grounding screws for the EMI/EMC requirement
Spare CTRL connector with resistor Spare CTRL connector with resistor for CTRL wiring Dulck Install Guide (QIG) QIG for IQ Battery unit installation instructions PTIONAL ACCESSORIES AND REPLACEMENT PARTS BBC-BAT RMA IQBO-BAT Microinverter for field replacement OS-T02-US00-1-3-RMA IQBO-BAT Microinverter for field replacement OS-CX-OS50-O IQ Battery 5P pedistal mount OS-CX-OS50-O IQ Battery 5P pedistal mount OS-CY-OS50-O IQ Battery 5P pedistal mount OS-CY-OS50-O IQBATTERY 5P conduit plates for field replacement. Includes one left-side and one right-side conduit plate OS-WB-0543-O IQBATTERY+NDL-5 IQBATTERY+NDL	Cable ties	Six cable ties for securing field cables to the unit
DIG For IQ Battery unit installation instructions PTIONAL ACCESSORIES AND REPLACEMENT PARTS DIRP-BAT-RMA IQBD-BAT Microinverter for field replacement IQS-T02-US00-1-3-RMA IQBD-BAT Microinverter for field replacement IQS-T02-US00-1-3-RMA IQBAttery SP Battery unit for field replacement IQS-CV-0550-Q IQBAttery SP power for field replacement IQS-CV-0560-Q IQBATTERY SP wall bracket for field replacement. Includes one left-side and one right-side conduit plat obs-CV-096-Q IQBATTERY SP wall bracket for field replacement. Includes one left-side and one right-side conduit plat obs-WB-0543-Q IQBATTERY SP wall bracket for field replacement. Includes one left-side and one right-side conduit plat obs-WB-0543-Q IQBATTERY SP wall bracket for field replacement. Includes one left-side and one right-side lifting handles IQBATTERY SP wall bracket for field replacement. Includes one left-side and one right-side lifting handles IQBATTERY SP wall bracket for field replacement. Includes one left-side and one right-side lifting handles IQBATTERY SP wall bracket for field replacement. I	Control (CTRL) connector	Spare CTRL connector without resistor for CTRL wiring
PTIONAL ACCESSORIES AND REPLACEMENT PARTS 28D-BAT-RIMA 108-DEAT Microinverter for field replacement 05-T02-US00-1-3-RIMA 10 Battery 5P Battery unit for field replacement 05-CX-0550-0 10 Battery 5P pedestal mount 10 Bothery 5P pedestal moun	Control (CTRL) connector with resistor	Spare CTRL connector with resistor for CTRL wiring
108D-BAT Microinverter for field replacement 105-T02-US00-1-3-RMA 10 Battery 5P Battery unit for field replacement 105-CX-0550-O 10 Battery 5P pedestal mount 105-CX-0550-O 10 Battery 5P pedestal mount 105-CX-0550-O 10 Battery 5P pedestal mount 105-CX-050-O 10 Battery 5P pedestal mount 105-CX-050-O 10 Battery 5P wall bracket for field replacement. Includes one left-side and one right-side conduit plat 105-CX-050-O 10 Battery 5P wall bracket for field replacement. Includes one bottom mounting bracket and one top shie 105-CX-050-O 10 Battery 5P wall bracket for field replacement. Includes one bottom mounting bracket and one top shie 105-CX-05-054-O 10 Battery 5P wall bracket for field replacement 105-CX-05-054-O 105-CX-05-054-O 10 Battery 5P AC filter board for field replacement 105-CX-05-054-O 105-CX-05-054-O 10 Battery 5P BMS board for field replacement 105-CX-05-054-O 105-CX-05-054	Quick Install Guide (QIG)	QIG for IQ Battery unit installation instructions
IO Battery 5P Battery unit for field replacement OS-CX-0550-O IO Battery 5P cover for field replacement OS-CY-0550-O IO Battery 5P conduit plates for field replacement. Includes one left-side and one right-side conduit plate OS-WB-0543-O IO Battery 5P wall bracket for field replacement. Includes one left-side and one right-side conduit plate OS-WB-0543-O IO Battery 5P wall bracket for field replacement. Includes one bottom mounting bracket and one top shie IOS-WB-0543-O IO Battery 5P AC filter board for field replacement. Includes one left-side and one right-side lifting handle OS-MB-080-O IO Battery 5P AC filter board for field replacement OS-BASNA-0490-O IO Battery 5P BMS board for field replacement OS-CANB-063-O IO Battery 5P BMS board for field replacement OS-NICS-0524-O, BO5-NIUCS-0524-O IO Battery 5P control communication board for field replacement IVPUT IACI © 240 VAC ² ated (continuous) output power ABAK VAA continuous) output power 7.68 kVA (3 seconds), 6.14 kVA (10 seconds) tominal frequency/range 60/57-63 Hz ated output current (@240 VAC) 16 A ated output current (@240 VAC) 17 ABA LRA ³ ower factor (adjustable) (asximum units per 20 A branch circuit One unit (single-phase) Atextorner protection device (OCPD) for 3 AWG cable Note current protection device (OCPD) for 3 AWG cable Note current protection device (OCPD) for 3 AWG cable Note current protection device (OCPD) for 3 AWG cable Note current protection device (OCPD) for 3 AWG cable	OPTIONAL ACCESSORIES AND REPLACEMENT PARTS	
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IO Battery 5P conduit plates for field replacement. Includes one left-side and one right-side conduit plate 505-WB-0543-O IO Battery 5P wall bracket for field replacement. Includes one bottom mounting bracket and one top shie 105-WB-0543-O IO Battery 5P Wall bracket for field replacement. Includes one left-side and one right-side lifting handle 105-ACFB-080-O IO Battery 5P AC filter board for field replacement 105-BMSNA-0490-O IO Battery 5P BMS board for field replacement 105-CANB-063-O IO Battery 5P control communication board for field replacement 105-NICS-0524-O, B05-NICS-0524-O IO Battery 5P control switch is preinstalled on the wiring cover for field replacement 105-NICS-0524-O, B05-NICS-0524-O IO Battery 5P control switch is preinstalled on the wiring cover for field replacement 105-NICS-0524-O, B05-NICS-0524-O IO Battery 5P control switch is preinstalled on the wiring cover for field replacement 105-NICS-0524-O, B05-NICS-0524-O IO Battery 5P control switch is preinstalled on the wiring cover for field replacement 105-NICS-0524-O, B05-NICS-0524-O, B05-NICS-0524-O IO Battery 5P control switch is preinstalled on the wiring cover for field replacement 105-NICS-0524-O, B05-NICS-0524-O, B05-NI	B05-CX-0550-O	IQ Battery 5P cover for field replacement
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IQ Battery 5P BMS board for field replacement IQ Battery 5P control communication board for field replacement IQ Battery 5P control switch is preinstalled on the wiring cover for field replacement IVIPUT (AC) @240 VAC ² ated (continuous) output power ated (continuous) output power 7.68 kVA (3 seconds), 6.14 kVA (10 seconds) Iominal voltage/range Iominal frequency/range Iominal frequency/range Iominal frequency/range Iominal frequency/range Iominal frequency (240 VAC) Iominal frequency (240 VAC) Iominal frequency (3240 VAC)	IQBATTERY-HNDL-5	IQ Battery 5P lifting handles. Includes one left-side and one right-side lifting handle
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IQ Battery 5P control switch is preinstalled on the wiring cover for field replacement UTPUT (AC) @ 240 VAC ² ated (continuous) output power 3.84 kVA eak output power 7.68 kVA (3 seconds), 6.14 kVA (10 seconds) lominal voltage/range lominal frequency/range 60/57-63 Hz ated output current (@240 VAC) 16 A eak output current (@240 VAC) oad start capability ower factor (adjustable) faximum units per 20 A branch circuit One unit (single-phase) overcurrent protection device (OCPD) for 3 AWG cable otherconnection IQ Battery 5P control switch is preinstalled on the wiring cover for field replacement @ 240 VAC ² 3.84 kVA 4.84 kVA 10 seconds) 240/211-264 VAC 60/57-63 Hz 10 A 240/211-264 VAC 10 A 240/211-264 VAC 10 Seconds) 240/211-264 VAC 10 Seconds)	B05-BMSNA-0490-O	IQ Battery 5P BMS board for field replacement
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Identinal voltage/range 240/211–264 VAC Identinal frequency/range 60/57–63 Hz Idea output current (@240 VAC) 16 A 18 A (3 seconds), 25.6 A (10 seconds) 19 Output current (@240 VAC) 10 A (3 seconds), 25.6 A (10 seconds) 10 A (3 seconds) 10 A (4 seconds) 11 A (4 seconds) 12 A (3 seconds) 13 A (4 seconds) 14 A LRA ³ 15 One unit (single-phase) 16 A (10 seconds) 17 A (10 seconds) 18 A LRA ³ 18 A LRA ³ 19 One unit (single-phase) 19 A A LRA ³ 10 A Seconds) 10 A Seconds) 10 A Seconds) 11 A LRA ³ 12 A (3 seconds) 13 A LRA ³ 14 A LRA ³ 15 A LRA ³ 16 A LRA ³ 17 A LRA ³ 18 A LRA ³ 19 A Seconds) 18 A LRA ³ 19 A Seconds) 19 A Seconds) 10 A Seconds) 10 A Seconds) 11 A LRA ³ 12 A Correction device (OCPD) for 3 AWG cable 10 A Single-phase	Rated (continuous) output power	3.84 kVA
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eak output current (@240 VAC) 32 A (3 seconds), 25.6 A (10 seconds) Oad start capability Up to 48 A LRA ³ Ower factor (adjustable) 0.85 leading0.85 lagging Maximum units per 20 A branch circuit One unit (single-phase) 4aximum conductor size supported 3 AWG Overcurrent protection device (OCPD) for 3 AWG cable 80 A Single-phase	Nominal frequency/range	60/57-63 Hz
oad start capability Up to 48 A LRA ³ Ower factor (adjustable) O.85 leading0.85 lagging Maximum units per 20 A branch circuit One unit (single-phase) Aximum conductor size supported Overcurrent protection device (OCPD) for 3 AWG cable Single-phase	Rated output current (@240 VAC)	16 A
O.85 leadingO.85 lagging Maximum units per 20 A branch circuit One unit (single-phase) Aximum conductor size supported Overcurrent protection device (OCPD) for 3 AWG cable Single-phase	Peak output current (@240 VAC)	32 A (3 seconds), 25.6 A (10 seconds)
Maximum units per 20 A branch circuit One unit (single-phase) 3 AWG Overcurrent protection device (OCPD) for 3 AWG cable Single-phase	Load start capability	Up to 48 A LRA ³
Maximum units per 20 A branch circuit One unit (single-phase) 3 AWG Overcurrent protection device (OCPD) for 3 AWG cable otherconnection Single-phase	Power factor (adjustable)	0.85 leading0.85 lagging
Maximum conductor size supported 3 AWG Overcurrent protection device (OCPD) for 3 AWG cable 80 A Interconnection Single-phase	Maximum units per 20 A branch circuit	
Overcurrent protection device (OCPD) for 3 AWG cable 80 A Single-phase	Maximum conductor size supported	
nterconnection Single-phase	••	
	Interconnection	
Cround-trip efficiency⁴ 90%	AC round-trip efficiency ⁴	

 $^{^2\,\}mbox{Supported}$ in both grid-connected and backup/off-grid operation

³ Load start capability may vary

 $^{^4 \}mbox{AC}$ to the battery to AC at 50% power rating

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 (HxWxD)	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		
IQ8D-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. 107.1-16 UL 9540, UL 9540A, UN 38.3, UL 1998, UL 991, NEMA Type 3R, AC156 EMI: 47 CFR, Part 15, Class B, ICES 003 Cell module: UL 1973, UN 38.3 Inverters: UL 62109-1, IEC 62109-2		
LIMITED WARRANTY			
Limited warranty	>60% capacity, up to 15 years or 6,000 cycles ⁵		

⁵Whichever occurs first. Restrictions apply

Revision history

REVISION	DATE	DESCRIPTION
DSH-00010-2.0	July 2023	Added battery isometric view on the first page.Editorial updates.
DSH-00010-1.0	May 2023	Initial release.