PHOTOVOLTAIC ROOF MOUNT SYSTEM

21 MODULES-ROOF MOUNTED - 9.240 kWDC, 6.090 kWAC 2333 SW OLD PORT RD, LEE'S SUMMIT, MO 64082, USA

SYSTEM SUMMARY

- (N) 21 SILFAB SOLAR SIL-440 QD (440W) MODULES
- (N) 21 ENPHASE ENERGY IQ8PLUS-72-M-US MICRO-INVERTERS
- (N) JUNCTION BOX
- (N) ENPHASE IQ COMBINER BOX 5 (X-IQ-AM1-240-5)
- (E) 225A MAIN SERVICE PANEL WITH (E) 200A MAIN BREAKER
- (N) 60A FUSED LOCKABLE FUSED AC DISCONNECT WITH 40A FUSES
- (N) PV PRODUCTION METER

INTERCONNECTION METHOD: LINE SIDE TAP

DESIGN CRITERIA

ROOF TYPE: ASPHALT SHINGLE

ROOF FRAME: 2"X6" RAFTERS + DIAGONAL BRACING

+COLLAR TIES@ 16" O.C

NUMBER OF LAYERS: 1

STORY: THREE STORY

SNOW LOAD: 20 PSF

WIND SPEED: 90 MPH

WIND EXPOSURE: C

RISK CATEGORY: II

COORDINATE: 38.881750, -94.427614

GOVERNING CODES:

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL RESIDENTIAL CODE
2018 INTERNATIONAL FIRE CODE
2017 NATIONAL ELECTRICAL CODE

SHEET INDEX

PV-0 COVER SHEET

PV-1 SITE PLAN WITH ROOF PLAN PV-2 ROOF PLAN WITH MODULES PV-3 ATTACHMENT DETAIL

PV-3.1 EQUIPMENT ELEVATION
PV-4 ELECTRICAL LINE DIAGRAM WITH

WIRE CALCULATION

PV-5 WARNING LABELS & PLACARD

PV-6+ EQUIPMENT SPEC SHEETS

GENERAL NOTES

- THE CONTRACTOR/INSTALLER OF THE SOLAR PV SYSTEM OVER EXISTING ROOF SHALL CONFORM TO OSHA REQUIREMENTS DURING THE CONSTRUCTION PHASE. JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF TH CONTRACTOR/INSTALLER.
- REFER TO ELECTRICAL DRAWING PV-5 FOR PANEL DETAILED INFORMATION.
- IN CASE OF CONFLICT BETWEEN STRUCTURAL DRAWINGS AND ELECTRICAL DRAWINGS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.
- THE CONTRACTOR/INSTALLER SHALL VERIFY ALL EXISTING BUILDING INFORMATION SHOWN (DIMENSIONS, ROOF TOP PROJECTIONS, ETC.) AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO INSTALLATIONS OF PV SYSTEM.
- THE CONTRACTOR/INSTALLER SHALL VERIFY AND COORDINATE EXISTING OPENINGS, ROOF TOP UNITS, VENT PIPES, ETC. SHOWN ON DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTORS/INSTALLER'S RESPONSIBILITY TO NOTIFY ENGINEER PRIOR TO PERFORMING THE WORK.
- ALL CONSTRUCTION IS TO BE PERFORMED IN STRICT CONFORMANCE WITH ALL APPLICABLE TOWN, COUNTY & STATE REGULATIONS AND/OR ANY OTHER GOVERNING BODIES.
- DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS. CONTRACTOR MUST CONDUCT ROOF SURVEY TO VERIFY DIMENSIONS SHOWN ON PLAN PRIOR TO INSTALLATION. IF THERE IS A DISCREPANCY IT IS CONTRACTOR/INSTALLER'S RESPONSIBILITY TO NOTIFY THE ENGINEER IMMEDIATELY.

ELECTRICAL NOTES

- ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
- ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.
- WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY
- WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
- DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.
- \bullet WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- \bullet ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
- \bullet MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN LUG.
- THE POLARITY OF THE GROUNDED CONDUCTORS IS NEGATIVE



RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

10/07/2025



1 AERIAL PHOTO

PV-0 SCALE: NTS

2333 SW Old Port Rd,
Lee's Summit, MO
64082, United States

2 VICINITY MAP
PV-0 SCALE: NTS





MISSOURI 64131, USA PH.NO: (816) 514-0014 License # : JC-000479 Email: kayshawn@816solarpros.con

VERSION					
DESCRIPTION	DATE	REV			
IITIAL RELEASE	10-01-2025	UR			

PROJECT NAME

NANCY BOGUT
2333 SW OLD PORT RD,
LEE'S SUMMIT, MO 64082, USA
UTILITY: EVERGY METRO
APN: 69220050300000000

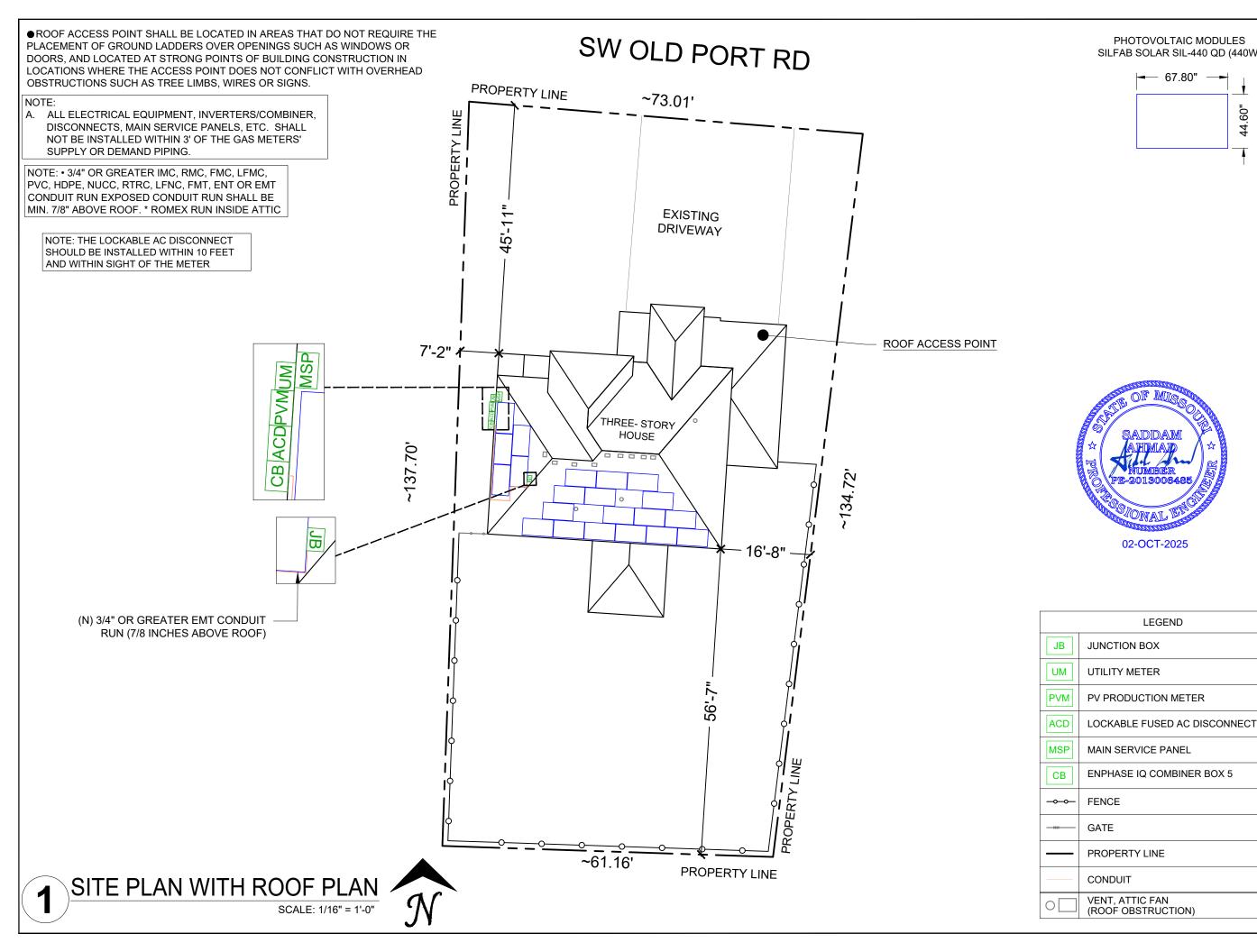
SHEET NAME

COVER SHEET

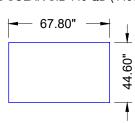
SHEET SIZE ANSI B

11" X 17"

PV-0

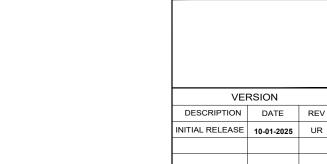


PHOTOVOLTAIC MODULES SILFAB SOLAR SIL-440 QD (440W)



02-OCT-2025

LEGEND



PROJECT NAME

7817 TROOST AVE, KANSAS CITY

MISSOURI 64131, USA PH.NO: (816) 514-0014

License # : JC-000479

Email: kayshawn@816solarpros.com

NANCY BOGUT
2333 SW OLD PORT RD,
LEE'S SUMMIT, MO 64082, USA
UTILITY: EVERGY METRO
APN: 69220050300000000
AHJ: CITY OF LEE'S SUMMIT

SHEET NAME SITE PLAN WITH

> SHEET SIZE ANSI B

ROOF PLAN

11" X 17"

ASSINGED INDUMBARREVIEW

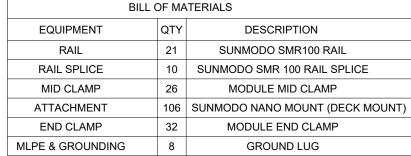
10/07/2025

MODULE TYPE, DIMENSIONS & WEIGHT

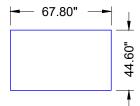
NUMBER OF MODULES = 21 MODULES MODULE TYPE = SILFAB SOLAR SIL-440 QD (440W) MODULES MODULE DIMENSIONS = 67.8" X 44.6" = 21.0 SF UNIT WEIGHT OF ARRAY = 2.2 PSF

SW OLD PORT RD

FRONT YARD



PHOTOVOLTAIC MODULES SILFAB SOLAR SIL-440 QD (440W)





	LEGEND
JB	JUNCTION BOX
UM	UTILITY METER
PVM	PV PRODUCTION METER
ACD	LOCKABLE FUSED AC DISCONNECT
MSP	MAIN SERVICE PANEL
СВ	ENPHASE IQ COMBINER BOX 5
	ENPHASE ENERGY IQ8PLUS-72-M-US MICRO INVERTER
	CONDUIT
	SUNMODO SMR100 RAIL
•	ROOF ATTACHMENT SUNMODO NANO MOUNT @32" O.C (DECK MOUNT)
0	VENT, ATTIC FAN (ROOF OBSTRUCTION)



MODULE WEIGHT = 46.3 LBS / 21.0 KG

ARRAY AREA & ROOF AREA CALC'S AREA OF ROOF(PLAN AREA OF NEW ARRAY TOTAL ROOF AREA VIEW) **COVERED BY ARRAY %** (Sq. Ft.) (Sq. Ft.) 440.98 2107.46 20.92 ROOF AREA (ARRAY <33% of ROOF AREA) 20.92%

ROOF DESCRIPTION ASPHALT SHINGLE **ROOF TYPE** RAFTERS + RAFTERS + DIAGONAL DIAGONAL **BRACING BRACING** # OF ROOF **AZIMUTH** +COLLAR +COLLAR MODULES TILT TIES TIES SIZE **SPACING** 16 33° 184° 2" X 6" 16" O.C 33° 274° #2 5 2" X 6" 16" O.C

36" FIRE PATHWAY



18" FIRE PATHWAY



(N) 3/4" OR GREATER EMT CONDUIT RUN (7/8 INCHES ABOVE ROOF)

NOTE:

A. ALL ELECTRICAL EQUIPMENT,

INVERTERS/COMBINER, DISCONNECTS, MAIN SERVICE PANELS, ETC. SHALL NOT BE INSTALLED WITHIN 3' OF THE GAS METERS' SUPPLY OR DEMAND PIPING

NOTE: ○ 3/4" OR GREATER IMC, RMC, FMC, LFMC, PVC, HDPE, NUCC, RTRC, LFNC, FMT, ENT OR EMT CONDUIT RUN EXPOSED CONDUIT RUN SHALL BE MIN. 7/8" ABOVE ROOF. * ROMEX RUN INSIDE ATTIC

PLUMBING VENTS, SKYLIGHTS AND MECHANICAL VENTS SHALL NOT BE COVERED, MOVED, RE-ROUTED OR RE-LOCATED.

REAR YARD

34'-4"

18" FIRE PATHWAY

[18" FIRE PATHWAY

NOTE: ACTUAL ROOF CONDITIONS AND RAFTERS (OR SEAM) LOCATIONS MAY VARY. INSTALL PER MANUFACTURER(S) INSTALLATION GUIDELINES AND ENGINEERED SPANS FOR ATTACHMENTS

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3

2'-9"

ROOF PLAN WITH MODULES

SCALE: 1/8" = 1'-0"

4"# 6'-4" *4'-5"_{*}

-0

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<u>'</u>4

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VERSION

DATE

DESCRIPTION

INITIAL RELEASE 10-01-2025

PROJECT NAME

NANCY BOGUT
2333 SW OLD PORT RD,
LEE'S SUMMIT, MO 64082, USA
UTILITY: EVERGY METRO
APN: 69220050300000000
AHJ: CITY OF LEE'S SUMMIT

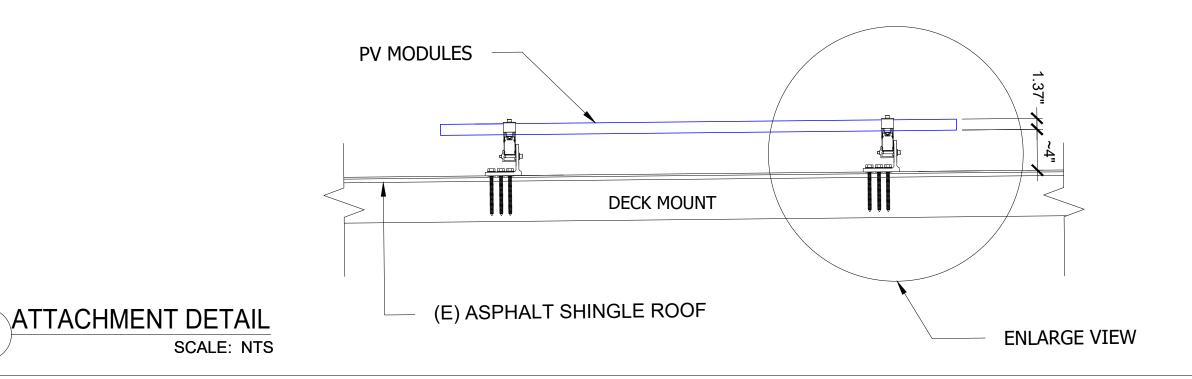
SHEET NAME **ROOF PLAN WITH MODULES**

> SHEET SIZE ANSI B

11" X 17"

ASSINGED INDUMBARREVIEW

10/07/2025





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2333 SW OLD PORT RD, LEE'S SUMMIT, MO 64082, US/ UTILITY: EVERGY METRO APN: 69220050300000000 AHJ: CITY OF LEE'S SUMMIT

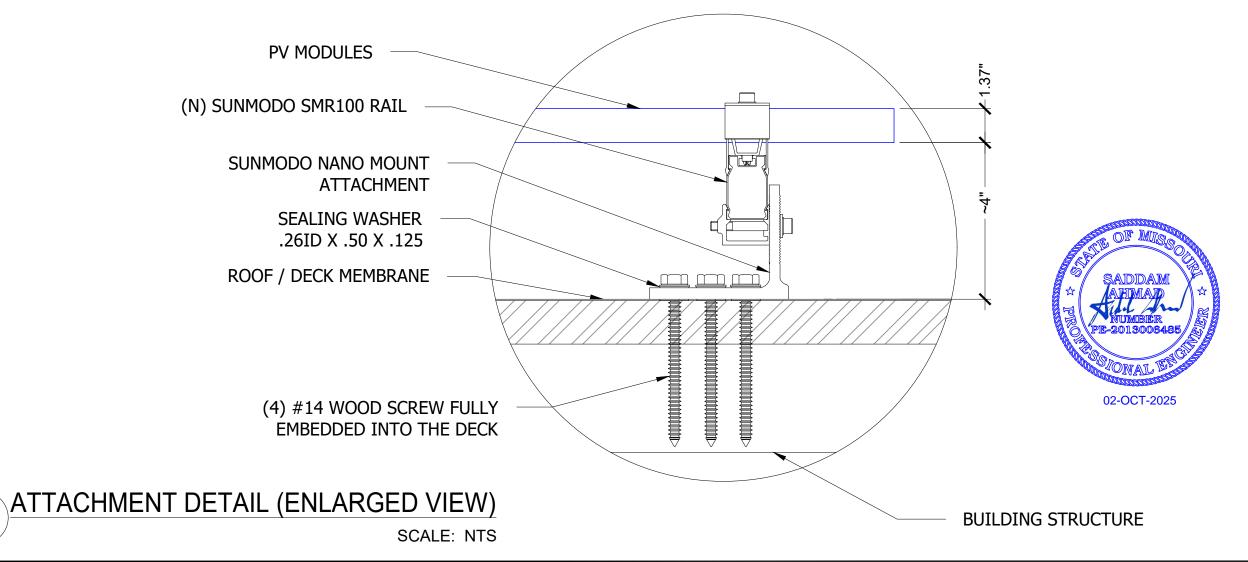
SHEET NAME

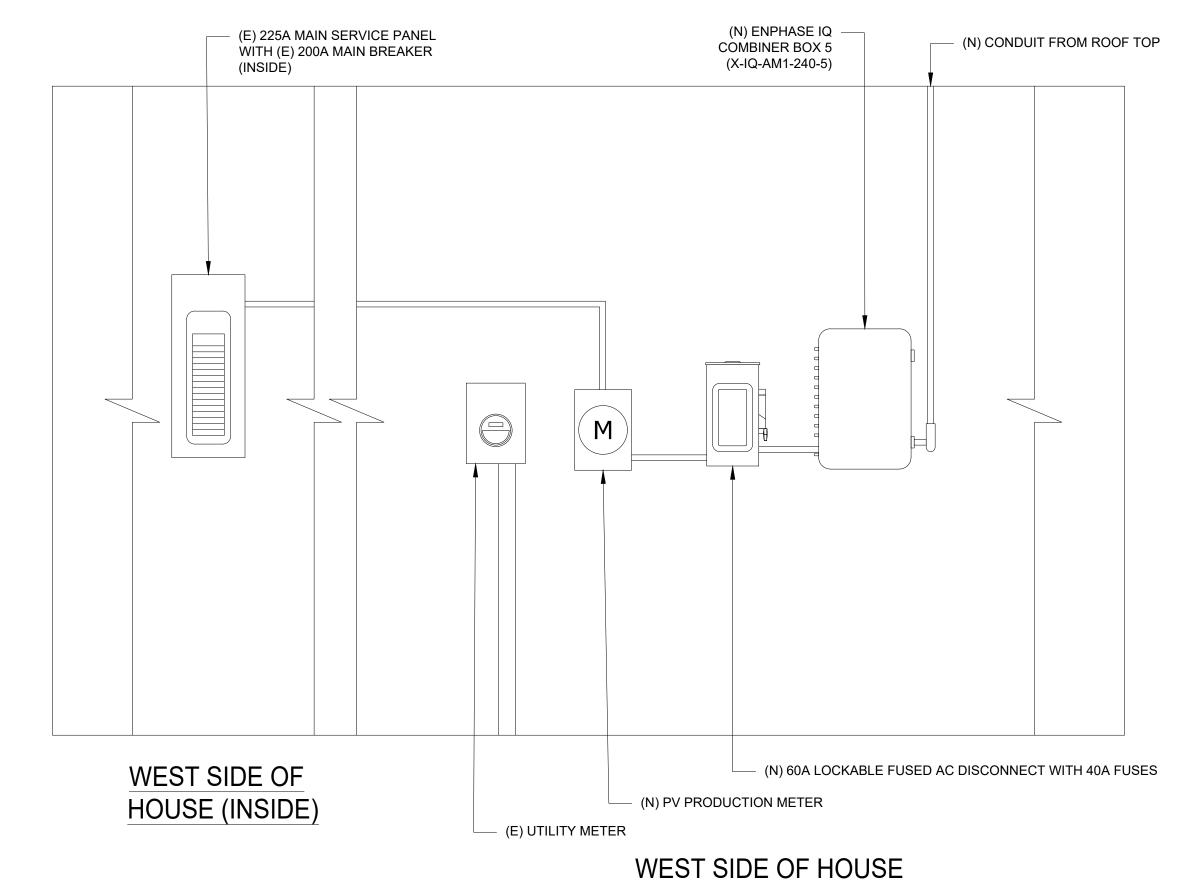
ATTACHMENT DETAIL

SHEET SIZE ANSI B

11" X 17'

RELEASE FOR SONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT MISSOURI





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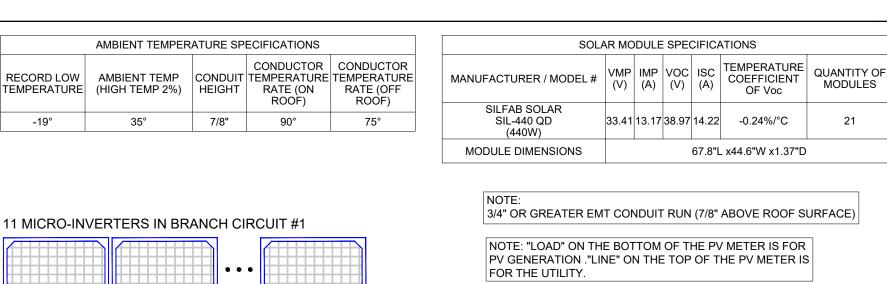
PROJECT NAME

SHEET NAME **EQUIPMENT**

ELEVATION

SHEET SIZE ANSI B

EQUIPMENT ELEVATION SCALE: NTS



INVERTER SPECIFICATIONS							
MANUFACTURER / MODEL # QUANTITY NOMINAL OUTPUT VOLTAGE NOMINAL OUTF							
ENPHASE ENERGY IQ8PLUS-72-M-US	21	240VAC	1.21A				

SYSTEM SIZE: 21 x 440W = 9.240 kWDC SYSTEM SIZE: 21 X 290W = 6.090 kWAC

SERVICE FEED SOURCE: UNDERGROUND **BI-DIRECTIONAL** UTILITY METER 1-PHASE, 3-W, 120V/240V, 60Hz

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VERSION

DESCRIPTION INITIAL RELEASE | 10-01-2025

SHEET NAME **ELECTRICAL LINE** DIAGRAM WITH WIRE CALCULATION

> SHEET SIZE ANSI B

11" X 17"

ASSINGED INDUMBARREVIEW 10/07/2025

11 MICRO-INVERTERS IN BRANCH CIRCUIT #1 (N) ENPHASE IQ (N) JUNCTION BOX COMBINER BOX 5 10 MICRO-INVERTERS IN BRANCH CIRCUIT #2 EXISTING WIRES (NEMA 3R) (X-IQ-AM1-240-5) IQ GATEWAY 0 (N) LINE SIDE TAP (N) 60A LOCKABLE (N) PV PRODUCTION METER FUSED AC 200A 15A 20A 20A DISCONNECT WITH 40A FUSES (E) 225A MAIN SERVICE PANEL WITH (E) 200A 40A FUSES MAIN BREAKER (TOP FED) **ENPHASE ENERGY IQ8PLUS-72-M-US** MICRO-INVERTERS TERMINATOR CAP ON LAST CABLE CONNECTOR IQ- CABLE (TYP) LOAD E OF MISS AHSAN H. Α В D CHOWDHURY PE-2021015018 **EXISTING** GROUNDING SYSTEM

WIRE TAG	CONDUIT	WIRE QTY	WIRE GAUGE	WIRE TYPE	TEMP. RATING	WIRE AMPACITY (A)	TEMP. DERATE	CONDUIT FILL DERATE	DERATED AMPACITY (A)	INVERTER QTY	NOC (A)	NEC	DESIGN CURRENT (A)	GROUND SIZE	GROUND WIRE TYPE
Α	OPEN AIR	2	12 AWG	IQ-CABLES	90°C	30	0.96	-	28.8	11	1.21	1.25	16.64	6 AWG	BARE CU GND
В	3/4" EMT	4+G	10 AWG	THWN-2	90°C	40	0.96	0.8	30.72	11	1.21	1.25	16.64	10 AWG	THWN-2
С	3/4" EMT	3+G	8 AWG	THWN	75°C	50	0.94	1	47.0	21	1.21	1.25	31.76	10 AWG	THWN
D	3/4" EMT	3+G	6 AWG	THWN	75°C	65	0.94	1	61.1	21	1.21	1.25	31.76	8 AWG	THWN

ELECTRICAL LINE DIAGRAM WITH CALCULATION

2-OCT-2025

SCALE: NTS

A WARNING

ELECTRIC SHOCK HAZARD

TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL LOCATION:
MAIN PANEL
(PER CODE: NEC 690.13(B))

WARNING DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

LABEL LOCATION:
MAIN SERVICE PANEL & NET METER
(PER CODE: NEC 705.12(D)(3), NEC
705.12(B)(3-4) & NEC 690.59)

PHOTOVOLTAIC

AC DISCONNECT

LABEL LOCATION: AC DISCONNECT NEC 690.13(B)

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL LOCATION: RAPID SHUTDOWN (PER CODE: NEC 690.56(C)(3)

MAIN PHOTOVOLTAIC SYSTEM DISCONNECT

LABEL LOCATION:
MAIN SERVICE DISCONNECT / UTILITY METER
(PER CODE: NEC 690.13(B))

WARNING:PHOTOVOLTAIC POWER SOURCE

LABEL LOCATION: CONDUIT, COMBINER BOX (PER CODE: NEC 690.31(G)(3)

PHOTOVOLTAIC SYSTEM AC DISCONNECT RATED AC OPERATING CURRENT 25.41 AMPS AC NOMINAL OPERATING VOLTAGE 240 VOLTS

LABEL LOCATION:
AC DISCONNECT & COMBINER BOX (PER CODE: NEC690.54)

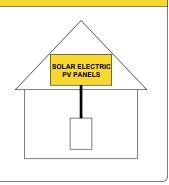


2-OCT-2025

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUTDOWN PV SYSTEM AND REDUCE

SHOCK HAZARD IN

ARRAY



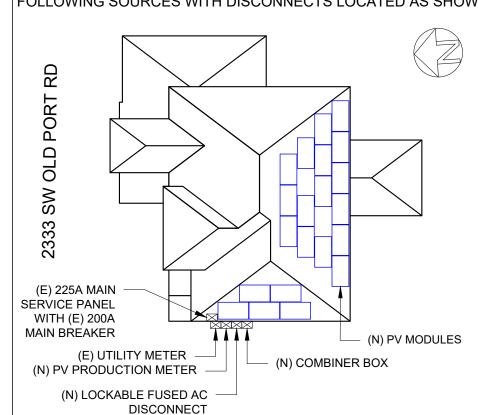
LABEL LOCATION:
AC DISCONNECT, DC DISCONNECT, POINT OF INTERCONNECTION
(PER CODE: 605.11.3.1(1) & 690.56(C)(1)(a))

SOLAR PV SYSTEM EQUIPPED

WITH RAPID SHUTDOWN

CAUTION! MULTIPLE SOURCES OF POWER

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN





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PROJECT NAME

NANCY BOGUT
2333 SW OLD PORT RD,
LEE'S SUMMIT, MO 64082, USA
UTILITY: EVERGY METRO
APN: 69220050300000000
AHJ: CITY OF LEE'S SUMMIT

SHEET NAME

WARNING LABELS & PLACARD

SHEET SIZE ANSI B

11" X 17"

ASHIGED MUMBER REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMITMUSSOURI

10/07/2025

PRIME NTC

SOLAR®

SIL-440 QD



NEXT-GENERATION N-TYPE CELL TECHNOLOGY

- Improved Shade Tolerance
- Increased Performance in
- High Temperatures
- Enhanced Durability
- Improved Low-Light Performance Reduced Degradation Rate
 - 25-Year Product Warranty/
 - 30-Year Performance Warranty

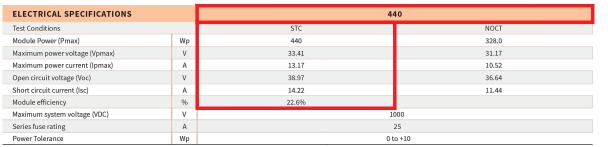












Measurement conditions: STC 1000 W/m² • AM 1.5 • Temperature 25 °C • NOCT 800 W/m² • AM 1.5 • Measurement uncertainty ≤ 3% Sun simulator calibration reference modules from Fraunhofer Institute. Electrical characteristics may vary by ±5% and power by 0 to +10 W.

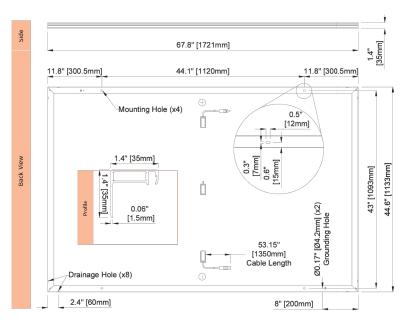
MECHANICAL PROPERTIES / COMPONENTS	METRIC	IMPERIAL	
Module weight	21 kg ± 0.2 kg	46.3 lbs ± 0.4 lbs	
Dimensions (H x L x D)	1721 mm x 1133 mm x 35 mm	67.8 in x 44.6 in x 1.37 in	
Maximum surface load (wind/snow)*	4000 Pa rear load / 5400 Pa front load	83.5 lb/ft² rear load / 112.8 lb/ft² front load	
Hail impact resistance	ø 25 mm at 83 km/h	ø 1 in at 51.6 mph	
Cells	108 Half cells - N-Type Silicon solar cell 182 mm x 91 mm	108 Half cells - N-Type Silicon solar cell 7.16 in x 3.58 in	
Glass	3.2 mm high transmittance, tempered, antireflective coating	0.126 in high transmittance, tempered, antireflective coating	
Cables and connectors (refer to installation manual)	1350 mm, ø 5.7 mm, MC4 from Staubli	53.1 in, ø 0.22 in (12 AWG), MC4 from Staubli	
Backsheet	High durability, superior hydrolysis and UV resistance, mult fluorine-free PV backsheet	i-layer dielectric film,	
Frame	Anodized aluminum (Black)		
Junction Box	UL 3730 Certified, IEC 62790 Certified, IP68 rated, 3 diodes		
TEMPEDATURE PATINGS	WADDANTIES		

Junction box	0E 3730 Certified, IEC 02730 (certified, if oo fated, 5 diodes	
TEMPERATURE RATINGS		WARRANTIES	
Temperature Coefficient Isc	0.04 %/°C	Module product workmanship warranty	25 years**
Temperature Coefficient Voc	-0.24 %/°C	Linear power performance guarantee	30 years
Temperature Coefficient Pmax	-0.29 %/°C		≥ 98% end 1st yr
NOCT (± 2 °C)	45 °C		≥ 94.7% end 12th yr ≥ 90.8% end 25th yr
Operating temperature	-40/+85 °C		≥ 89.3% end 30th yr

	Operating temperature	-40/+85 °C				end 30th yr
	CERTIFICATIONS			SHIPPING S	PECS	
Product		UL 61215, UL 61730, CSA C22.2#61730, IEC 61215, IEC 61730, IEC 61701 (Salt Mist Corrosion), IEC 62716 (Ammonia Corrosion), CEC Listed, UL Fire Rating: Type 2		Modules Per Pallet:		26 or 26 (California)
				Pallets Per Truck		32 or 30 (California)
	Factory	ISO9001:2015		Modules Per Tr	uck	832 or 780 (California)

- ▲ Warning. Read the Safety and Installation Manual for mounting specifications and before handling, installing and operating modules.

 12 year extendable to 25 years subject to registration and conditions outlined under "Warranty" at silfabsolar.com.
- PAN files generated from 3rd party performance data are available for download at: silfabsolar.com/downloads.



SILFAB SOLAR INC.

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7149 Logistics Lane Fort Mill SC 29715 USA T +1 839.400.4338

240 Courtneypark Drive East Mississauga ON L5T 2Y3 Canada T +1 905.255.2501

F +1 905.696.0267 Silfab - SIL-440-QD-20240829

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SHEET NAME

SPEC SHEETS

SHEET SIZE ANSI B

11" X 17"

ASSINGED INDUMBARREVIEW

NORTH AMERICA DATA SHEET

IQ8 and IQ8+ Microinverters

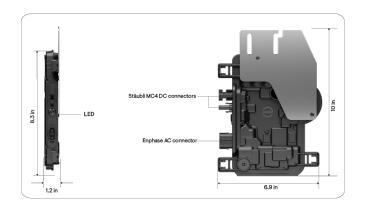
Our newest IQ8 Microinverters^{1, 2, 3} are the industry's first microgridforming⁴, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently.







		_			
Key specifications	IQ8-60-M-US	IQ8PLUS-72-M-US			
Peak output power	245 VA	300 VA			
Nominal grid voltage (L-L)	240 V, split-phase (L-L), 180°				
Nominal frequency	60 Hz	60 Hz			
CEC weighted efficiency	97%	97%			
Maximum input DC voltage	50 V	60 V			
MPPT voltage range	27-37 V	27-45 V			
Maximum module I _{sc}	20 A	20 A			
Ambient temperature range	-40°C to 60°C	(-40°F to 140°F)			



- 1 IQ8 Series Microinverters can be added to existing IQ7 systems on the same IQ Gateway only in the following grid-tied configurations: Solar Only or Solar + Battery (IQ Battery 37/10T and IQ Battery 5P) without backup.
 2 IQ7 Series Microinverters cannot be added to a site with setting IQ8 Series Microinverters on the same gateway.
 Mixed system of IQ7 and IQ8 will not support IQ8-specific PCS features and grid-forming capabilities.
 3 IQ Microinverters ship with default settings that meet North America's IEEE 1547 interconnection standard
- requirements. Region-specific adjustments may be requested by an Authority Having Jurisdiction (AHJ) or utility representative, according to the IEEE 1547 interconnection standard. Use an IQ Gateway to make these changes during installation.

 4 Meets UL 1741 only when installed with IQ System Controller 2 or 3.
- ⁵ IQ8 and IQ8+ support split-phase, 240 V installations only.



- · Lightweight and compact with plug-and-play connectors
- Power line communication (PLC) between components
- · Faster installation with simple twowire cabling

- · Produce power even when the grid is down
- More than one million cumulative hours of testing
- · Industry-leading limited warranty of up to 25 years
- Class II double-insulated enclosure
- Optimized for the latest highpowered PV modules

Microgrid-forming

- · Compliant with the latest advanced grid support⁵
- Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
- Meets CA Rule 21 (UL 1741-SA) and IEEE 1547:2018 (UL 1741-SB 3rd Ed.)

Input data (DC)	Units	IQ8-60-M-US	IQ8PLUS-72-M-US
Commonly used module pairings ⁶	W	235–350	235–440
Module compatibility	_	To meet compatibility, PV modules must be within maximum input DC voltage and maximum module I _{sc} . Module compatibility can be checked at https://enphase.com/installers/microinverters/calculator .	
MPPT voltage range	٧	27–37	27-45
Operating range	٧	16-48	16-58
Minimum/Maximum start voltage	٧	22/48	22/58
Maximum input DC voltage	V	50	60
Maximum continuous input DC current	Α	10	12
Maximum input DC short-circuit current	Α	25	
Maximum module I _{sc}	Α	20	
Overvoltage class DC port	_	II	
DC port backfeed current	mA	0	
PV array configuration	_	Ungrounded array; no additional DC side protection required; AC side protection requires maximum 20 A per branch circuit.	
Output data (AC)	Units	IQ8-60-M-US	IQ8PLUS-72-M-US
Peak output power	VA	245	300
Maximum continuous output power	VA	240	290
Nominal grid voltage (L-L)	٧	240, split-phase (L-L), 180°	
Minimum and Maximum grid voltage ⁷	V	211-264	
Maximum continuous output current	Α	1.0	1.21
Nominal frequency	Hz	60	
Extended frequency range	Hz	47-68	
AC short-circuit fault current over			

' ·			
Nominal frequency	Hz	6	0
Extended frequency range	Hz	47-	-68
AC short-circuit fault current over three cycles	Arms		2
Maximum units per 20 A (L-L) branch circuit ⁸	_	16	13
Total harmonic distortion	%	<	5
Overvoltage class AC port	_	1	II
AC port backfeed current	mA	3	0
Power factor setting	_	1,	.0
Grid-tied power factor (adjustable)	d power factor (adjustable) – 0.85 leading 0.85 lagging		0.85 lagging
Peak efficiency	%	9.	7.7
CEC weighted efficiency	%	g	7
Nighttime power consumption	mW	23	25
Mechanical data		IQ8-60-M-US	IQ8PLUS-72-M-US
Ambient temperature range		-40°C to 60°C	(-40°F to 140°F)

⁶ No enforced DC/AC ratio.

7 Nominal voltage range can be extended beyond nominal if required by the utility.

8 Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

DSH-00206-4.0-EN-2024-12-10



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VERSION DESCRIPTION DATE INITIAL RELEASE | 10-01-2025

PROJECT NAME

NANCY BOGUT
2333 SW OLD PORT RD,
LEE'S SUMMIT, MO 64082, USA
UTILITY: EVERGY METRO
APN: 69220050300000000
AHJ: CITY OF LEE'S SUMMIT

SHEET NAME

SPEC SHEETS

SHEET SIZE

ANSI B 11" X 17"

ASSINGED INDUMBARREVIEW







X-IQ-AM1-240-5-HDK X-IQ-AM1-240-5C-HDK X-IQ-AM1-240-5 X-IQ-AM1-240-5C

IQ Combiner 5/5C

The IQ Combiner 5/5C consolidates 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 Combiner 5/5C uses wired control communication and is compatible with IQ System Controller 3/3G and IQ Battery 5P.

The IQ Combiner 5/5C, IQ Series Microinverters, IQ System Controller 3/3G, and IQ Battery 5P provide a complete grid-agnostic Enphase Energy System.



IQ Series Microinverter

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



IQ Battery 5P

Fully integrated AC battery system. Includes six field-replaceable IQ8D-BAT Microinverters.









Helps prioritize essential appliances during a

grid outage to optimize energy consumption

IQ System Controller 3/3G

backup power.

IQ Load Controller

and prolong battery life.

Provides microgrid interconnection device

grid failures and seamlessly transitioning the home energy system from grid power to

(MID) functionality by automatically detecting

5-year limited warranty

*For country-specific warranty information, see the https://enphase.com/installers/resources/warranty page.

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Smart

- Includes IQ Gateway for communication and control
- Includes Enphase Mobile Connect (CELLMODEM-M1-06-SP-05), only with IQ Combiner 5C
- Supports flexible networking: Wi-Fi, Ethernet, or cellular
- Provides production metering (revenue grade) and consumption monitoring

Easy to install

- Mounts to one stud with centered brackets
- Supports bottom, back, and side conduit entries
- Supports up to four 2-pole branch circuits for 240 VAC plug-in breakers (not included)
- 80 A total PV branch circuits
- · Factory installed hold-down kit
- Bluetooth-based Wi-Fi provisioning for easy Wi-Fi setup

Reliable

- Durable NRTL-certified NEMA type 3R enclosure
- 5-year limited warranty
- 2-year labor reimbursement program coverage included for IQ Combiner SKUs*
- · UL1741 Listed

IQ Combiner 5/5C

MODEL NUMBER	
IQ Combiner 5 (X-IQ-AM1-240-5/ X-IQ-AM1-240-5-HDK)	IQ Combiner 5 with IQ Gateway printed circuit board for integrated revenue-grade PV production metering (ANSI C12.20 ±0.5%), consumption monitoring (±2.5%), and IQ Battery monitoring (±2.5%). Includes a silver solar shield to deflect heat. IQ-AM1-240-5-HDK includes a factory installed hold-down kit compatible with all the circuit breakers mentioned in the Accessories and Replacement Parts section.
IQ Combiner 5C (X-IQ-AM1-240-5C / X-IQ-AM1-240-5C-HDK)	IQ Combiner 5C with IQ Gateway printed circuit board for integrated revenue-grade PV production metering (ANSI C12.20 ±0.5%), consumption monitoring (±2.5%), and IQ Battery monitoring (±2.5%). Includes Enphase Mobile Connect cellular modem (CELLMODEM-M1-06-SP-05) ¹ . Includes a silver solar shield to deflect heat. IQ-AM1-240-5C-HDK includes a factory installed hold-down kit compatible with all the circuit breakers mentioned in the Accessories and Replacement Parts section.
WHAT'S IN THE BOX	
IQ Gateway printed circuit board	IQ Gateway is the platform for total energy management for comprehensive, remote maintenance, and management of the Enphase Energy System
Busbar	80 A busbar with support for one IQ Gateway breaker and four 20 A breakers for installing IQ Series Microinverters and IQ Battery 5P
IQ Gateway breaker	Circuit breaker, 2-pole, 10 A/15 A
Production CT	Pre-wired revenue-grade solid-core CT, accurate up to ±0.5%
Consumption CT	Two consumption metering clamp CTs, shipped with the box, accurate up to $\pm 2.5\%$
IQ Battery CT	One battery metering clamp CT, shipped with the box, accurate up to ±2.5%
CTRL board	Control board for wired communication with IQ System Controller 3/3G and the IQ Battery 5P
Enphase Mobile Connect (only with IQ Combiner 5C)	4G-based LTE-M1 cellular modem (CELLMODEM-M1-06-SP-05) with a 5-year T-Mobil data plan
Accessories kit	Spare control headers for the COMMS-KIT-2 board
ACCESSORIES AND REPLACEMENT PARTS (NOT INCL	UDED, ORDER SEPARATELY)
CELL MODEM-M1-06-SP-05	4G-hased LTE-M1 cellular modern with a 5-year T-Mobile data plan

CCESSORIES AND REPLACEMENT PARTS (NOT INCLUDED, ORDER SEPARATELY)	
CELLMODEM-M1-06-SP-05	4G-based LTE-M1 cellular modem with a 5-year T-Mobile data plan
CELLMODEM-M1-06-AT-05	4G-based LTE-M1 cellular modem with a 5-year AT&T data plan
Circuit breakers (off-the-shelf)	Supports Eaton BR2XX, Siemens Q2XX, and GE/ABB THQL21XX Series circuit breakers (XX represents 10, 15, 20, 30, 40, 50, or 60). Also supports Eaton BR220B, BR230B, and BR240B circuit breakers compatible with the hold-down kit.
Circuit breakers (provided by Enphase)	BRK-10A-2-240V, BRK-15A-2-240V, BRK-20A-2P-240V, BRK-15A-2P-240V-B, and BRK-20A-2P-240V-B (more details in the "Accessories" section)
XA-SOLARSHIELD-ES	Replacement solar shield for IQ Combiner 5/5C
XA-ENV2-PCBA-5	IQ Gateway replacement printed circuit board (PCB) for IQ Combiner 5/5C
X-IQ-NA-HD-125A	Hold-down kit compatible with Eaton BR-B Series circuit breakers (with screws). Not required for X-IQ-AM1-240-5-HDK/X-IQ-AM1-240-5C-HDK.
XA-COMMS2-PCBA-5	Replacement COMMS-KIT-2 printed circuit board (PCB) for IQ Combiner 5/5C

ELECTRICAL SPECIFICATIONS	
Rating	80 A
System voltage and frequency	120/240 VAC or 120/208 VAC, 60 Hz
Busbar rating	125 A
Fault current rating	10 kAIC
Maximum continuous current rating (input from PV/ storage)	64 A
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR, Siemens Q, or GE/ABB THQL Series distributed generation (DG) breakers only (not included)
Maximum total branch circuit breaker rating (input)	80 A of distributed generation/95 A with IQ Gateway breaker included
IQ Gateway breaker	10 A or 15 A rating GE/Siemens/Eaton included
Production metering CT	200 A solid core pre-installed and wired to IQ Gateway

^{1.} A plug-and-play industrial-grade cell modem for systems of up to 60 microinverters. Available in the United States, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.

IQC-5-5C-DSH-00007-6.0-EN-US-2024-09-30



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INITIAL RELEASE	10-01-2025	UR		

PROJECT NAME

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SPEC SHEETS

SHEET SIZE

ANSI B 11" X 17"

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DEVELOPMENT SERVICES

10/07/2025

IQC-5-5C-DSH-00007-6.0-EN-US-2024-09-30

Data sheet
Enphase IQ Cable accessories
Region: America



Enphase IQ Cable accessories



Enphase IQ Cable accessories

The Enphase IQ Cable and accessories are part of the latest generation Enphase Energy System. These accessories provide simplicity, reliability, and faster installation times.



Enphase IQ Cable

- Two-wire, double-insulated Enphase IQ Cable is 50% lighter than the previous generation Enphase cable
- New cable numbering and plug-and-play connectors speed up installation and simplify wire management
- · Link connectors eliminate cable waste

IQ Field Wireable Connectors

- Easily connect IQ Cables on the roof without complex wiring
- Make connections from any open connector and center-feed any section of cable within

 branch limits.
- · Available in male and female connector types

Certification	UL 3003 (raw cable), UDG cable	JL 9703 (cable assemblie	s),
Flame test rating	FT4		
Compliance	RoHS, OIL RES I, CE, U	JV Resistant, combined U	L for Canada and United States
Conductor type	THHN/THWN-2 dry/w	vet .	
Disconnecting means	The AC and DC bulkher load-break disconnec		n evaluated and approved by UL for use as th
IQ CABLE TYPES/ORDERING OPTIONS			
Connectorized models	Size/Maximum nominal voltage	Connector spacing	Connector count per box
Q-12-10-240	12 AWG/277 VAC	1.3 m (4.2 ft)	240
Q-12-12-240	12 AWG/277 VAC	1.5 m (4.9 ft)	240
Q-12-17-240	12 AWG/277 VAC	2.0 m (6.5 ft)	240
Q-12-18-240	12 AWG/277 VAC	2.1 m (6.9 ft)	240
Q-12-20-200	12 AWG/277 VAC	2.3 m (7.5 ft)	200
Q-12-22-200	12 AWG/277 VAC	2.5 m (8.2 ft)	200
Q-12-25-200	12 AWG/277 VAC	2.8 m (9.1 ft)	200
ENPHASE IQ CABLE ACCESSORIES			
Name	Model number	Description	
IQ Raw Cable	Q-12-RAW-300	300 meters of 12 AWG	cable with no connectors
IQ Field Wireable Connector (male)	Q-CONN-10M	Make connections from	m any open connector
IQ Field Wireable Connector (female)	Q-CONN-10F	Make connections from	m any IQ Cable open connector
IQ Cable Clip	Q-CLIP-100	Used to fasten cabling	to the racking or to secure looped cabling
IQ Disconnect Tool	Q-DISC-10	IQ Disconnect tool for I module mount	Q Cable connectors, DC connectors, and AC
IQ Sealing Caps (female)	Q-SEAL-10	One needed to cover e	ach unused connector on the cabling
IQ Terminator	Q-TERM-10	IQ Terminator for unus	ed cable ends
Enphase EN4 to MC4 adapter (150 mm) ¹	ECA-EN4-S22	Connect PV module using MC4 connectors to IQ Microinverters w EN4 (TE PV4-S SOLARLOK) 150 mm/5.9" to MC4	
Enphase EN4 to MC4 adapter (1000 mm) ²	ECA-EN4-S22-10-12	EN4 (TE PV4-S SOLAR	sing MC4 connectors to IQ Microinverters w RLOK) 1000 mm/39.4" to MC4
Enphase EN4 to MC4 adapter (1800 mm) ²	ECA-EN4-S22-18-12	EN4 (TE PV4-S SOLAR	sing MC4 connectors to IQ Microinverters w RLOK) 1800 mm/70.9" to MC4 ertified DC connectors. EN4 to non-termina
Enphase EN4 to non-terminated extension cable ³	ECA-EN4-FW-12	cable, 150 mm/5.9"	ertified DC connectors. EN4 (TE PV4-S
Enphase EN4 non-terminated adapter ¹	ECA-EN4-FW	SOLARLOK) to non-ter	rminated cable 150 mm/5.9" for EN4 (TE PV4-S SOLARLOK) to MC4. Use
Enphase EN4 to MC4 adapter (600 mm) ³	ECA-EN4-S22-L		or PV modules with short DC cable
Enphase EN4 to MC4 adapter (57 mm) ²	ECA-EN4-S22-12	EN4 (TE PV4-SSOLAR	sing MC4 connectors to IQ Microinverters w LOK) 57mm/2.24" to MC4
Enphase EN4 to non-terminated extension cable (1000 mm) ³	ECA-EN4-FW-10-12	For field wiring of UL-c cable, 1000 mm/39.4"	ertified DC connectors. EN4 to non-termina
Replacement DC adapter (MC4) ²	Q-DCC-2	DC adapter to MC4 (m	ax voltage 100 VDC)
Replacement DC adapter (UTX) ¹	Q-DCC-5	DC adapter to UTX (ma	ax voltage 100 VDC)
Replacement DC adapter (MC4) IQ8P Microinverters²	Q-DCC-2-P	DC Adapter to MC4 (m	ax voltage 100 VDC) for IQ8P Microinverter
Enphase MC4 to non-terminated extension cable (1000 mm) ³	ECA-S22-FW-12	For field wiring of UL-c cable, 1000 mm/39.4"	ertified DC connectors. MC4 to non-termina
Enphase MC4 to MC4 extention cable (1000 mm) ²	ECA-S22-S22-10-12		n cable to connect PV module to DC adapter rters with MC4, 1000 mm/39.4"

IQ Cable accessories-DSH-00247-1.0-EN-US-2024-07-03



MISSOURI 64131, USA
PH.NO: (816) 514-0014
License # : JC-000479
Email: kayshawn@816solarpros.com

VERSION				
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INITIAL RELEASE	10-01-2025	UR		

PROJECT NAME

NANCY BOGUT
2333 SW OLD PORT RD,
LEE'S SUMMIT, MO 64082, USA
UTILITY: EVERGY METRO
APN: 69220050300000000
AHJ: CITY OF LEE'S SUMMIT

SHEET NAME

SPEC SHEETS

SHEET SIZE

ANSI B

ASHUTED MUMBUREVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT MISSOURI



NanoMount®



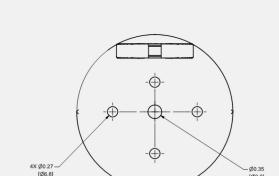


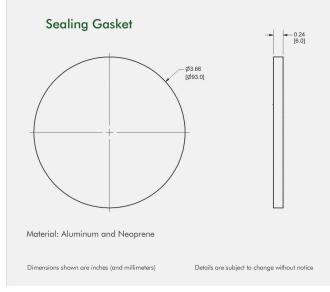
Part Number	Description
K50063-BK1	NanoMount® NanoMount Sealing Gasket

See Published data for allowable loads. Care should be taken to avoid concentrated loads during installation.

Cut Sheet







SUNM DO LEADING by DESIGN

Lag Bolt Assembly



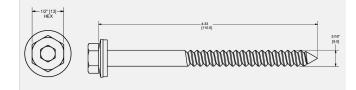
Decking Screw Assembly



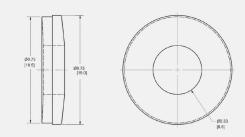
Item No.	Part Number	Description
1	K50049-BK1	Lag Bolt Assembly • M8X110 Hex Head Lag Bolt • Sealing Washer
2	K50055-BK2	Decking Screw Assembly • #14 X 3" Self-Tapping Screw • Sealing Washer

Cut Sheet

1. M8X110 Hex Head Lag Bolt

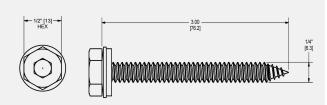


Sealing Washer

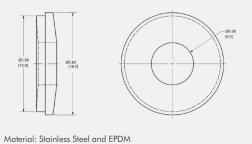


Material: Stainless Steel and EPDM

2. #14 X 3" Self-Tapping Screw



Sealing Washer



Dimensions shown are inches (and millimeters)

Details are subject to change without notice

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NANCY BOGUT
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AHJ: CITY OF LEE'S SUMMIT

SHEET NAME

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SHEET SIZE

ANSI B

11" X 17" ASSINGED INDUMBARREVIEW



SMR100 Rail



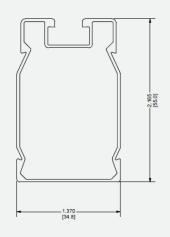
SMR200 Rail



Part Number	Description	
A20422-168-BK	SMR100 Rail, Black Anodized, 168"	
A20431-168-BK	SMR200 Rail, Black Anodized, 168"	
A20440-BK1	SMR100 Rail End Cap, Black	
A20440-BK2	SMR200 Rail End Cap, Black	

Cut Sheet

SMR100 Rail



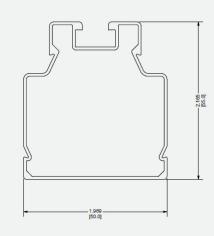
Mechanical Properties

Material: 6005-T5 Aluminum Weight: 0.4126 lbs/ft (0.614 kg/m) Ultimate Tensile Strength: 37.7 ksi (260 MPa) Area (X-section): 0.352 in² (2.27 cm²) Yield Strength: 34.8 ksi (240 MPa)

Section Properties

Sx: 0.196 in³ (3.21 cm³) Sy: 0.146 in³ (2.39 cm³)

SMR200 Rail



Mechanical Properties

Material: 6005-T5 Aluminum Weight: 0.453 lbs/ft (0.626 kg/m) Ultimate Tensile Strength: 37.7 ksi (260 MPa) Area (X-section): 0.388 in² (1.22 cm²) Yield Strength: 34.8 ksi (240 MPa)

Sx: 0.223 in³ (3.74 cm³) Sy: 0.189 in³ (3.10 cm³)

Section Properties

Dimensions shown are inches (and millimeters)

Details are subject to change without notice

SUNM DI

SMR Rail Splices





L-Foot Adaptors

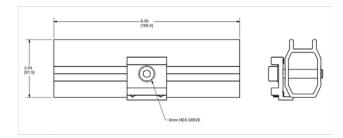


Part Number	Description
K10421-BK1	SMR100 Structural Bonding Rail Splice
K10427-BK1	SMR200 Structural Bonding Rail Splice
K10433-BK1	SMR100 L-Foot Adaptor
K10434-BK1	SMR200 L-Foot Adaptor

Cut Sheet

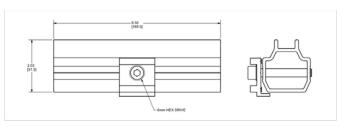
SMR100 Bonding Rail Splice

Material: Aluminum



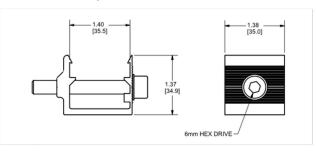
SMR200 Bonding Rail Splice

Material: Aluminum



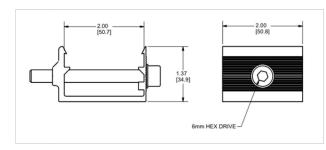
SMR 100 L-Foot Adaptor

Material: Aluminum



SMR 200 L-Foot Adaptor

Material: Aluminum



D10225-V001

Dimensions shown are inches (and millimeters)

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ASSINUTED INUMBERREVIEW

10/07/2025



Pop-On Mid Clamp



Pop-On End Clamp



Shared Rail Mid/End Clamp



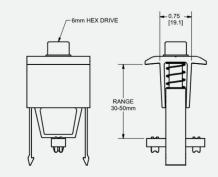


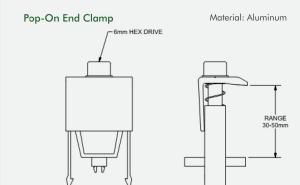
١			
	Part Number	Description	
	K10417-BK1	Pop-On Bonding Mid Clamp, Black	
	K10418-BK1	Pop-On End Clamp, Black	
	K10419-BK1	Shared Rail Bonding Mid Clamp, Black	
	K10420-BK1	Shared Rail End Clamp, Black	

Cut Sheet

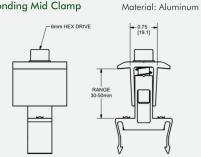
Material: Aluminum

Pop-On Bonding Mid Clamp

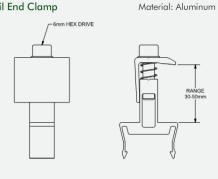




Shared Rail Bonding Mid Clamp



Shared Rail End Clamp



Dimensions shown are inches (and millimeters)

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SUNM DI

SunDock Rail-Free Accessories



Parts Description: Top Mount Cable Clip



Parts Description: Side Mount Cable Clip



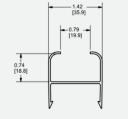
Parts Description: Microinverter Mount

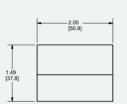
Part Number	Description
A20408-001	Top Mount Cable Clip
A20427-BK1	Side Mount Cable Clip (SMR100)
A20434-BK1	Side Mount Cable Clip (SMR200)
K50052-001	Microinverter Mount Kit

Cut Sheet

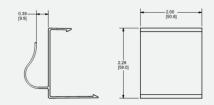
Top Mount Cable Clip

Material: Aluminum

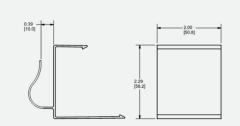




Side Mount Cable Clip (SMR100) Material: Aluminum



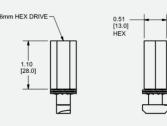
Side Mount Cable Clip (SMR200)



Microinverter Mount

Material: Aluminum

Material: Aluminum



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SHEET SIZE ANSI B

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