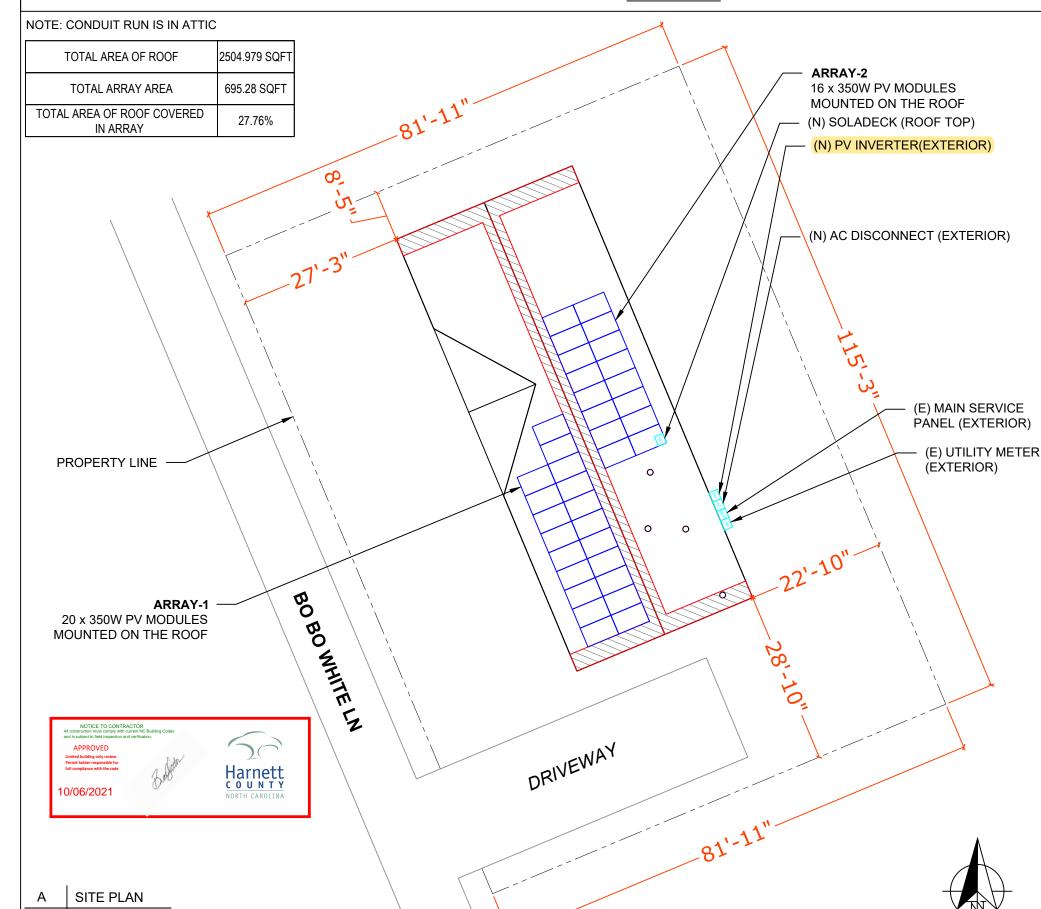
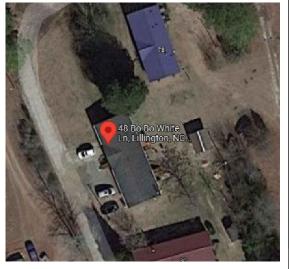
NOE ASAEL AGUILAR AMAYA- 12.600kW DC, 10.000kW AC

SITE PLAN





A1	AERIAL MAP
S-001	SCALE NTS

GENERAL INFORMATION									
ELECTRIC CODE	NEC 2017								
FIRE CODE	NCFC 2018								
RESIDENTIAL CODE	NCRC 2018								
BUILDING CODE	NCBC 2018								
WIND SPEED	118 MPH								
SNOW LOAD	10 PSF								

	INDEX
INDEX NO.	DESCRIPTION
S-001 G-001 S-002 S-003 E-001 E-002 SS	SITE PLAN GENERAL NOTES MOUNTING DETAILS STRUCTURAL DETAILS SINGLE LINE DIAGRAM WARING PLACARDS SPEC SHEET(S)



SYSTEM INFORMATION

DC SYSTEM SIZE: 12.600 kW
AC SYSTEM SIZE: 10.000 kW
ANNUAL SOLAR OUPUT: 15864kWh/an
MODULES:
(36) Q CELLS Q.PEAK DUO-G6+ 350
INVERTER:
(1)SOLAREDGE SE10000H-US
OPTIMIZER DETAILS
(36) P370 SOLAR EDGE POWER OPTIMIZER

ENGINEER OF RECORD



CUSTOMER INFORMATION

NAME & ADDRESS: NOE ASAEL AGUILAR AMAYA 48 BO BO WHITE LN, LILLINGTON, NC 27546

GPS: 35.3425154, -78.9448008 APN: 130528 0035

AHJ: NC-HARNETT COUNTY

UTILITY: SOUTH RIVER EMC

PROJECT NUMBER: ----

SITE PLAN

DESIGNER / CHECKED BY: J.B. / J.B.

SCALING: AS NOTED	PAPER SI	ilZE: 17"x11"		
DATE: 9/17/21	REV:A	S-001		

GENERAL NOTES

GENERAL NOTES

- 1. MODULES ARE LISTED UNDER UL 1703 AND CONFORM TO THE STANDARDS.
- 2. INVERTERS ARE LISTED UNDER UL 1741 AND CONFORM TO THE STANDARDS.
- DRAWINGS ARE DIAGRAMMATIC, INDICATING GENERAL ARRANGEMENT OF THE PV SYSTEM AND THE ACTUAL SITE CONDITION MIGHT VARY.
- 4. WORKING CLEARANCES AROUND THE NEW PV ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH NEC 110.26(A)(1).
- 5. ALL GROUND WIRING CONNECTED TO THE MAIN SERVICE GROUNDING IN MAIN SERVICE PANEL/ SERVICE EOUIPMENT.
- 6. ALL CONDUCTORS SHALL BE 600V, 75°C STANDARD COPPER UNLESS OTHERWISE NOTED.
- 7. WHEN REQUIRED, A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.
- 8. THE SYSTEM WILL NOT BE INTERCONNECTED BY THE CONTRACTOR UNTIL APPROVAL FROM THE LOCAL JURISDICTION AND/OR THE UTILITY.
- 9. ROOF ACCESS POINT SHALL BE LOCATED IN AREAS THAT DO NOT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS OR DOORS, AND LOCATED AT STRONG POINTS OF BUILDING CONSTRUCTION WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREES, WIRES OR SIGNS.
- 10. PV ARRAY COMBINER/JUNCTION BOX PROVIDES TRANSITION FROM ARRAY WIRING TO CONDUIT WIRING

EQUIPMENT LOCATION:

- 11. ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS AS REQUIRED BY NEC 110.26(A)(1).
- 12. WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC 690.31(A),(C) AND NEC TABLES 310.15(B)(2)(A) AND 310.15(B)(3)(C).
- 13. JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES ACCORDING TO NEC 690.34.
- 14. ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT.
- 15. ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL ACCORDING TO NEC APPLICABLE CODES
- 16. ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.

STRUCTURAL NOTES:

- 17. RACKING SYSTEM & PV ARRAY WILL BE INSTALLED ACCORDING TO CODE-COMPLIANT INSTALLATION MANUAL. TOP CLAMPS REQUIRE A DESIGNATED SPACE BETWEEN MODULES, AND RAILS MUST ALSO EXTEND A MINIMUM DISTANCE BEYOND EITHER EDGE OF THE ARRAY/SUBARRAY, ACCORDING TO RAIL MANUFACTURER'S INSTRUCTIONS.
- 18. JUNCTION BOX WILL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. IF ROOF-PENETRATING TYPE, IT SHALL BE FLASHED & SEALED PER LOCAL REQUIREMENTS.
- 19. ROOFTOP PENETRATIONS FOR PV RACEWAY WILL BE COMPLETED AND SEALED WITH APPROVED CHEMICAL SEALANT PER CODE BY A LICENSED CONTRACTOR.
- 20. ALL PV RELATED ROOF ATTACHMENTS TO BE SPACED NO GREATER THAN THE SPAN DISTANCE SPECIFIED BY THE RACKING MANUFACTURER.
- 21. WHEN POSSIBLE, ALL PV RELATED RACKING ATTACHMENTS WILL BE STAGGERED AMONGST THE ROOF FRAMING MEMBERS.

WIRING & CONDUIT NOTES:

- 22. ALL CONDUIT AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE. CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.
- 23. CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7.
- 24. DC WIRING LIMITED TO MODULE FOOTPRINT. MICRO INVERTER WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY WITH SUITABLE WIRING CLIPS.
- 25. AC CONDUCTORS COLORED OR MARKED AS FOLLOWS: PHASE A OR L1- BLACK PHASE B OR L2- RED, OR OTHER CONVENTION IF THREE PHASE PHASE C OR L3- BLUE, YELLOW, ORANGE**, OR OTHER CONVENTION NEUTRAL-WHITE OR GREY IN 4-WIRE DELTA CONNECTED SYSTEMS THE PHASE WITH HIGHER VOLTAGE TO BE MARKED ORANGE [NEC 110.15].

INTERCONNECTION NOTES:

- 26. LOAD-SIDE INTERCONNECTION SHALL BE IN ACCORDANCE WITH [NEC 690.64(B)]
- 27. THE SUM OF THE UTILITY OCPD AND INVERTER CONTINUOUS INPUT MAY NOT EXCEED 120% OF BUSBAR RATING [NEC 705.12(D)(2)(3)].
- 28. WHEN SUM OF THE PV SOURCES EQUALS >100% OF BUSBAR RATING, PV DEDICATED BACKFFED BREAKERS MUST BE LOCATED OPPOSITE END OF THE BUS FROM THE UTILITY SOURCE OCPD [NEC 705.12(D)(2)(3)].
- 29. AT MULTIPLE PV OUTPUT COMBINER PANEL, TOTAL RATING OF ALL OVER CURRENT DEVICES SHALL NOT EXCEED AMPACITY OF BUSBAR. HOWEVER, THE COMBINED OVER CURRENT DEVICE MAY BE EXCLUDED ACCORDING TO NEC 705.12(D)(2)(3)(C).
- 30. FEEDER TAP INTER CONNECTION (LOAD SIDE) ACCORDING TO NEC 705.12(D)(2)(1)SUPPLY SIDE TAP INTERCONNECTION ACCORDING TO NEC 705.12(A) WITH SERVICE ENTRANCE CONDUCTORS IN ACCORDANCE WITH NEC 230.42 BACK FEEDING BREAKER FOR UTILITY-INTERACTIVE INVERTER OUTPUT IS EXEMPT FROM ADDITIONAL FASTENING [NEC 705.12(D)(5)].

GROUNDING NOTES:

- 31. GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, AND GROUNDING DEVISES EXPOSED TO THE ELEMENTS SHALL BE RATED FOR SUCH USE.
- 32. PV EQUIPMENT SHALL BE GROUNDED ACCORDING TO NEC 690.43 AND MINIMUM NEC 250.122.
- 33. METAL PARTS OF MODULE FRAMES, MODULE RACKING, AND ENCLOSURES CONSIDERED GROUNDED IN ACCORD WITH 250.134 AND 250.136(A).
- 34. EQUIPMENT GROUNDING CONDUCTOR'S SHALL BE SIZED ACCORDING TO NEC 690.45 AND MICRO INVERTER MANUFACTURER'S INSTRUCTIONS.
- 35. EACH MODULE WILL BE GROUNDED USING WEEB GROUNDING CLIPS AS SHOWN IN MANUFACTURER DOCUMENTATION AND APPROVED BY THE AHJ. IF WEEBS ARE NOT USED, MODULE GROUNDING LUGS MUST BE INSTALLED AT THE SPECIFIED GROUNDING LUG HOLES PER THE MANUFACTURERS' INSTALLATION REQUIREMENTS.
- 36. THE GROUNDING CONNECTION TO A MODULE SHALL BE ARRANGED SUCH THAT THE REMOVAL OF A MODULE DOES NOT INTERRUPT A GROUNDING CONDUCTOR TO ANOTHER MODULE.
- 37. GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLORED GREEN OR MARKED GREEN IF #4 AWG OR LARGER [NEC 250.119]
- 38. THE GROUNDING ELECTRODE SYSTEM COMPLIES WITH NEC 690.47 AND NEC 250.50 THROUGH 250.106. IF EXISTING SYSTEM IS INACCESSIBLE, OR INADEQUATE, A GROUNDING ELECTRODE SYSTEM PROVIDED ACCORDING TO NEC 250,NEC 690.47 AND AHJ.
- 39. GROUND-FAULT DETECTION SHALL COMPLY WITH NEC 690.5 IN GENERAL AND NEC 690.5(A)(1) SPECIFICALLY.
- 40. DISCONNECTION AND OVER-CURRENT PROTECTION NOTES:
- 41. DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING ENERGIZED ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS).
- 42. DISCONNECTS TO BE ACCESSIBLE TO QUÁLIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH
- 43. RAPID SHUTDOWN OF ENERGIZED CONDUCTORS BEYOND 10 FT OF PV ARRAY OR 5 FT INSIDE A BUILDING WITHIN 10 SECONDS. CONTROLLED CONDUCTORS ≤30V AND ≤240VA [NEC 690.12]. LOCATION OF LABEL ACCORDING TO AHJ.
- 44. ALL OCPD RATINGS AND TYPES SPECIFIED ACCORDING TO NEC 690.8.690.9 AND 240.
- 45. MICRO INVERTER BRANCHES CONNECTED TO A SINGLE BREAKER OR GROUPED FUSES IN ACCORDANCE WITH NEC 110.3(B). 2.6.7 IF REQUIRED BY AHJ, SYSTEM WILL INCLUDE ARC-FAULT CIRCUIT PROTECTION ACCORDING TO NEC 690.11 AND UL1699B.



SYSTEM INFORMATION

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(36) Q CELLS Q.PEAK DUO-G6+ 350

(1)SOLAREDGE SE10000H-US

OPTIMIZER DETAILS

(36) P370 SOLAR EDGE POWER OPTIMIZER

ENGINEER OF RECORD



CUSTOMER INFORMATION

NAME & ADDRESS: NOE ASAEL AGUILAR AMAYA 48 BO BO WHITE LN, LILLINGTON, NC 27546

GPS: 35.3425154, -78.9448008 APN: 130528 0035

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UTILITY: SOUTH RIVER EMC

PROJECT NUMBER: ----

GENERAL NOTES

DESIGNER / CHECKED BY: J.B. / J.B.

SCALING: AS NOTED PAPER SIZE: 17"x11"

DATE: 9/17/21 REV:A

G-001

<u>N</u>	MODULES DATA		SITE INFORMATION												\prod
Q CEL	SR.NO	AZIMUTH	PITCH		ARRAY AREA	ROOF TYPE	ATTACHMENT	ROOF	FRAME TYPE	FRAME	FRAME	MAX RAIL	OVER	1	
MODULE DIMS	68.5"x40.6"x1.3"				MODULES	(SQ. FT.)			EXPOSURE		SIZE	SPACING	SPAN	HANG	41
LAG SCREWS	5/16" X 3.5":2.5"MIN EMBEDMENT	MP-01	255°	14°	20	1027.18	COMPOSITION SHINGLE	SNAPNRACK ULTRA RAIL COMP KIT	ATTIC	RAFTERS	2X6	24"	6'-0"	2'-0"	
FIRE SETBACK		MP-02	75°	10°	16	1210.13	COMPOSITION SHINGLE	SNAPNRACK ULTRA RAIL COMP KIT	ATTIC	RAFTERS	2X6	24"	6'-0"	2'-0"	1

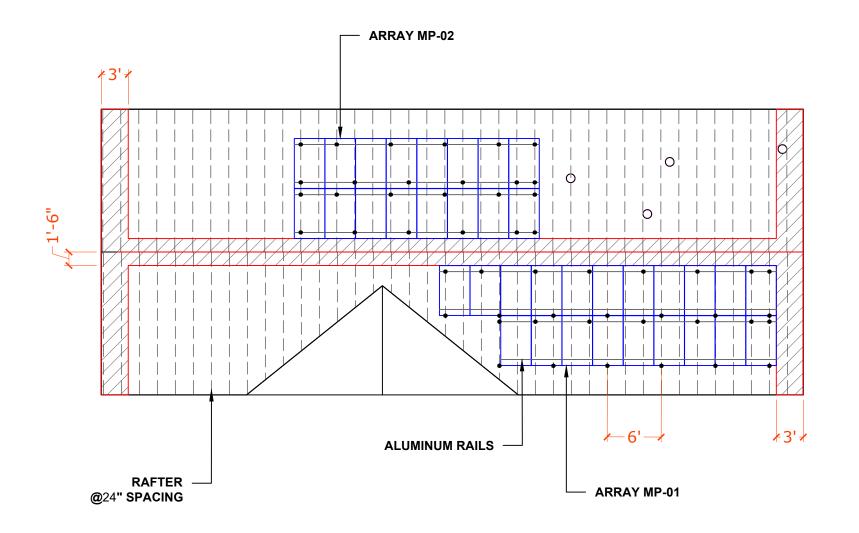
MINIMUM FIRE ACCESS PATHWAYS PER NCFC 2018

RIDGE TO ARRAY: 1'-6" EAVE TO ARRAY: 3'-0"

HIP/VALLEY W/ ADJACENT ARRAY: 1'-6"

EACH SIDE HIP/VALLEY W/O ADJACENT ARRAY: 0'-0"

NOTE: INSTALLER TO VERIFY RAFTER SIZE, SPACING AND SLOPED SPANS, AND NOTIFY ANY DISCREPANCIES BEFORE PROCEEDING.







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PROJECT NUMBER: ----

MOUNTING DETAILS

DESIGNER / CHECKED BY: J.B. / J.B.

 SCALING: AS NOTED
 PAPER SIZE: 17"x11"

 DATE: 9/17/21
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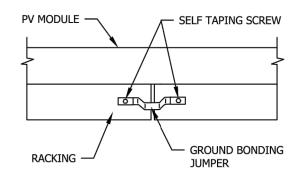
GROUNDING DETAILS MODULE TO MODULE & MODULE TO RAIL SS BONDING PIN MID CLAMP ASSEMBLY MODULE FRAME RAIL CHANNEL NUT SNAPNRACK GROUNDING MID-CLAMP SCALE: NTS SNAPNRACK GROUNDING 6-12 AWG BARE COOPER WITH GOODER WITH

6-12 AWG BARE COPPER WIRE 5/16"-18 SS BOLT SS SPLIT LOCK WASHER (TORQUE TO 16FT-LBS) SNAPNRACK GROUNDING LUG BOUNDING CHANNEL NUT

NOTES

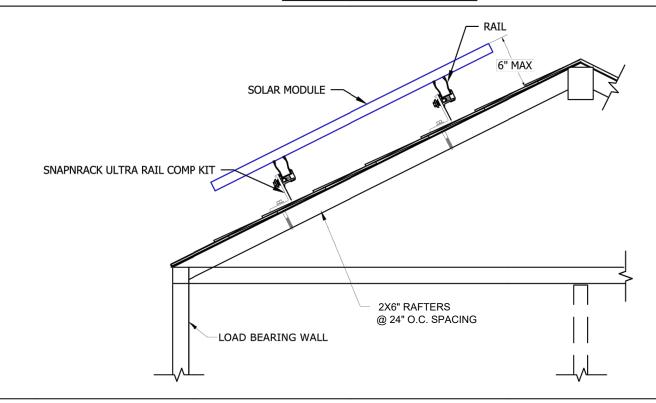
- ALL HARDWARE IS INCLUDED FROM MANUFACTURER
- A MINIMUM OF ONE GROUND LUG IS TO BE INSTALLED ON EVERY CONTINUOUS ROW OF MODULES
- GROUNDING LUG MAY BE INSTALLED IN EITHER RAIL CHANNEL
- GROUNDING LUG MAY BE INSTALLED SO GROUND WIRE IS PARALLEL OR PERPENDICULAR TO RAIL
- ENSURE SPLIT LOCK WASHER IS INSTALLED ON TOP OF COPPER WIRE. SCALE:NTS

RAIL TO RAIL

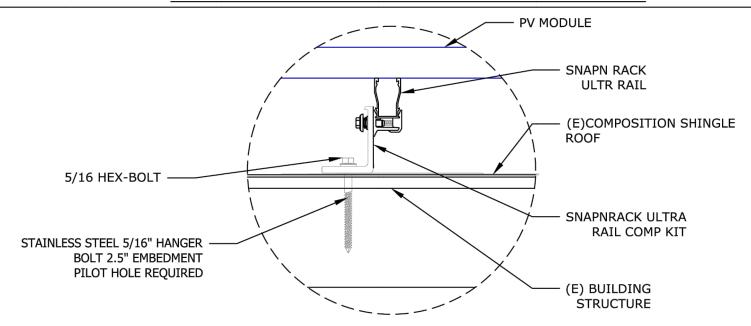


NTS REMOVAL OF ONE PIECE OF EQUIPMENT SHALL NOT DISCONNECT THE BONDING CONNECTION BETWEEN ANY OTHER PIECES. SCALE:NTS

ROOF FRAMING DETAIL

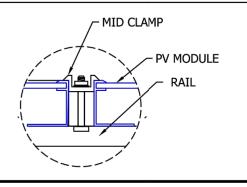


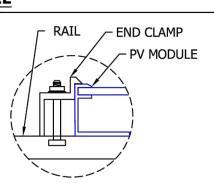
ATTACHMENT DETAIL-SNAPNRACK ULTRA RAIL COMP KIT



SCALE: NTS

MID-CLAMP & END CLAMP DETAIL



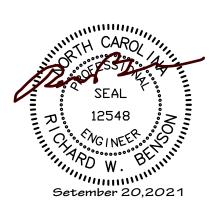




SYSTEM INFORMATION

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(36) P370 SOLAR EDGE POWER OPTIMIZER

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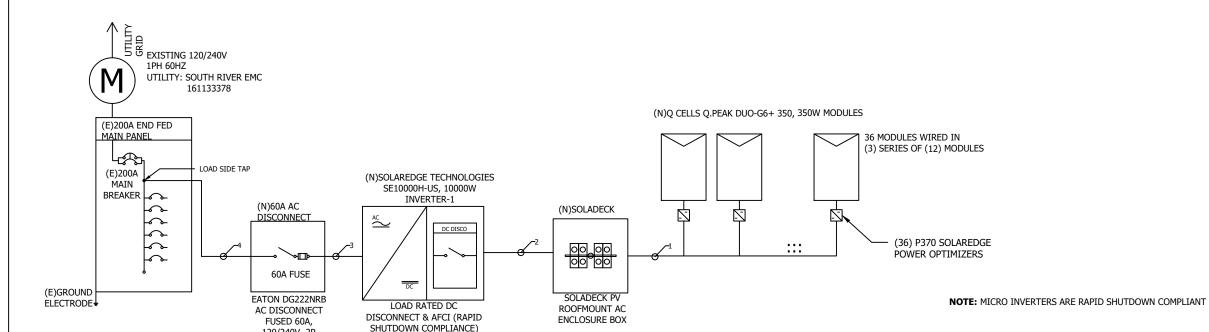
PROJECT NUMBER: ----

STRUCTURAL DETAILS

DESIGNER / CHECKED BY: J.B. / J.B.

 SCALING: AS NOTED
 PAPER SIZE: 17"x11"

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MODULE -1 S	PECIFICATION	INVERTER-1 S	PECIFICATIONS	SYSTEM CHARACTERISTICS			
MODEL	Q CELLS Q.PEAK DUO-G6+ 350	MODEL	SOLAREDGE SE10000H-US	DC SYSTEM SIZE	12600 W		
Module Power @ STC	350W	POWER RATING	10000W	INVERTER STRING VOLTAGE	400V		
OPEN CIRCUIT VOLTAGE:Voc	40.73V	MAX OUPUT CURRENT	42A				
MAX POWER VOLTAGE:Vmp	34.07V	CEC WEIGHTED EFFICIENCY	0.99	MAX INVERTER SYSTEM VOLTAGE	480V		
SHOR CIRCUIT VOLTAGE:Isc	10.79A	MAX INPUT CURRENT	27A	MAX SHORT CIRCUIT CURRENT	45A		
MAX POWER CURRENT:Imp	10.27A	MAX DC VOLTAGE	480V	OPERATING CURRENT	31.5A		

120/240V, 2P

		OPTIMIZER CHRACTERISTICS				
TAG ID	CONDUIT SIZE	CONDUIT SIZE CONDUCTOR NEUTRAL GROUND		MODEL	Р3	
1	NONE	(6) 10 AWG PV WIRE	NONE	(1) 6 AWG BARE COPPER	MIN INPUT VOLTAGE	8 V
2	3/4" EMT OR EQUIV	(6) 10 AWG THHN/THWN-2	NONE	(1) 10 AWG THHN/THWN-2	MAX INPUT VOLTAGE	60 \
3	3/4" EMT OR EQUIV	(2) 6 AWG THHN/THWN-2	(1) 6 AWG THHN/THWN-2	(1) 10 AWG THHN/THWN-2	MAX INPUT CURRENT	11 /
4	3/4" EMT OR EQUIV	(2) 6 AWG THHN/THWN-2	(1) 6 AWG THHN/THWN-2	(1) 10 AWG THHN/THWN-2	MAX OUTPUT CURRENT	15 <i>A</i>

	4 3/4" EMT OR EQUIV (2) 6 AWG THHN/T				THWN-2 (1) 6 AWG THHN/THWN-2			(1) 10 A	(1) 10 AWG THHN/THWN-2		MAX OUTPUT CL	IAX OUTPUT CURRENT											
	ELECTRICAL CALCULATION																						
	DC WIRE CALCULATIONS:- MATERIAL:COPPER & TEMPERATURE RATING:90℃																						
TAG ID	REQUIRED CONDUCTOR AMPACTLY							C	ORREC	CTED AI	МРАСІТ	TY CAL	CULAT	ION	TERMINAL RATING CHECK			DERATED	DERATED CONDUCTOR AMPACITY CHECK				
1	1	х	15.00	х	1	Х	1.25	=	18.75A	40	Х	0.71	Х	1	=	28.40A	18.75A	<	304	A 18.75A	<	28.40A	
2	1	х	15.00	х	1	Х	1.25	=	18.75A	40	Х	0.76	Х	0.8	=	24.32A	18.75A	<	304	A 18.75A	<	24.32A	
									AC W	ire cai	CULAT	IONS:-	MATE	RIAL:CO)PPER	& TEMPER	ATURE RATIN	G:90°C		·			
TAG ID			REQ	JIRED	CONDUCT	TOR AI	MPACIT'	Y		C	ORREC	CTED AI	МРАСІТ	TY CAL	CULAT:	ION	TERM	IINAL RATING	CHECK	DERATED	DERATED CONDUCTOR AMPACITY CHECK		
3	42	х	1	=	42.00	х	1.25	=	52.5A	75	Х	0.91	Х	1	=	68.25A	52.5	<	654	A 52.5	<	68.25A	
4	42	Х	1	=	42.00	Х	1.25	=	52.5A	75	Х	0.91	Х	1	=	68.25A	52.5	<	65/	A 52.5	<	68.25A	



MAIN PANEL RATING: 200A, LOAD SIDE TAP:100% ALLOWABLE BACK FEED IS 200A INVERTER OVERCURRENT PROTECTION= INVERTER O/P I X CONTINUOUS LOAD(1.25)X #OF INVERTERS =42X1.25X1=52.50A =< PV BREAKER = 60A

ELECTRICAL NOTES:

P370

8 VDC

60 VDC

11 ADC

- 1. MAXIMUM DC/AC VOLTAGE DROP SHALL BE NO MORE THAN 2%.
- 2. BREAKER/FUSE SIZES CONFORMS TO NEC 240.6 CODE SECTION.
- 3. AC GROUNDING ELECTRODE CONDUCTOR SIZED PER NEC 250.66.
- 4. AMBIENT TEMPERATURE CORRECTION FACTOR IS BASED ON NEC 690.31(A).
- 5. AMBIENT TEMPERATURE ADJUSTMENT FACTOR IS BASED ON NEC 310.15(B)(2)(C) AND 310.15(B)(2)(B) 6. AC SYSTEM VOLTAGE CORRECTION IS PER NEC 690.7(A)
- 7. CONDUCTORS ARE SIZED PER WIRE AMPACITY TABLE NEC 310.15(B)(16).
- 8. CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC 310.10(D). 9. CONDUCTORS EXPOSED TO WET LOCATIONS SHALL
- BE SUITABLE FOR USE IN WET LOCATIONS PER NEC 310.10(C).



SYSTEM INFORMATION

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SINGLE LINE DIAGRAM

DESIGNER / CHECKED BY: J.B. / J.B.

SCALING: AS NOTED	PAPER S	IZE: 17"x11"
DATE: 9/17/21	REV:A	E-001

WARNING PLACARDS

WARNING

ELECTRIC SHOCK HAZARD

THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED

DC DISCONNECT, INVERTER [PER CODE: NEC 690.41)]

[To be used when inverter is ungrounded]

WARNING

ELECTRIC SHOCK HAZARD

DO NOT TOUCH TERMINALS TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT

LABEL LOCATION

AC DISCONNECT, POINT OF INTERCONNECTION [PER CODE: NEC 690.13(B)]

WARNING

ELECTRIC SHOCK HAZARD

DO NOT TOUCH TERMINALS TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

ABEL LOCATION

AC DISCONNECT, POINT OF INTERCONNECTION PER CODE: NEC 690.13(B)]

WARNING-Electric Shock Hazard No User Serviceable Parts inside Contact authorized service provide for assistance

LABEL LOCATION

INVERTER, JUNCTION BOXES(ROOF), AC DISCONNECT [PER CODE: NEC 690.13]

WARNING:PHOTOVOLTAIC **POWER SOURCE**

LABEL LOCATION CONDUIT, COMBINER BOX [PER CODE: NEC690.31(G)(3)]

WARNING

DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

LABEL LOCATION

POINT OF INTERCONNECTION [PER CODE: NEC705.12(D)(4)]

PHOTOVOLTAIC SYSTEM DC DISCONNECT

MAXIMUM VOLATAGE 480 VDC MAXIMUM CIRCUIT CURRENT MAX RATED OUTPUT CURRENT OF THE **CHARGE CONTROLLER OR DC TO DC** CONCERTER (IF INSTALLED)

DC DISCONNECT SWITCH, INVERTER REF. CODE: NEC 690.14(C)(2), NEC 690.53

PHOTOVOLTAIC SYSTEM AC DISCONNECT SWITCH

RATED AC OPERATING CURRENT 42.00 AMPS AC AC NOMINAL OPERATING VOLTAGE 240 VAC

AC DISCONNECT, POINT OF INTERCONNECTION [PER CODE: NEC 690.54]

WARNING

INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS **OVER-CURRENT DEVICE**

LABEL LOCATION

POINT OF INTERCONNECTION

(PER CODE: NEC 705.12(2)(b)

[Not Required if Panel board is rated not less than sum of ampere ratings of all overcurrent devices supplying it]

CAUTION: SOLAR CIRCUIT

MARKINGS PLACED ON ALL INTERIOR AND EXTERIOR DC CONDUIT, RACEWAYS, ENCLOSURES AND CABLE ASSEMBLES AT LEAST EVERY 10 FT, AT TURNS AND ABOVE/BELOW PENETRATIONS AND ALL COMBINER/JUNCTION BOXES. (PER CODE: IFC605.11.1.4)

SOLAR DISCONNECT

DISCONNECT, POINT OF INTERCONNECTION [PER CODE: NEC690.13(B)]

CAUTION: SOLAR ELECTRIC SYSTEM CONNECTED

WEATHER RESISTANT MATERIAL, DURABLE ADHESDIVE, UL969 AS STANDARD TO WEATHER RATING (UL LISTING OF MARKINGS NOT REQUIRED), MIN 3/8" LETTER HEIGHT ARIAL OR SIMILAR FONT NON-BOLD, PLACED WITHIN THE MAIN SERVICE DISCONNECT, PLACED ON THE OUTSIDE OF THE COVER WHEN DISCONNECT IS OPERATED WITH THE SERVICE PANEL CLOSED. (PWER CODE: NEC690.15,690.13(B))

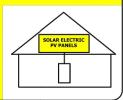
RAPID SHUTDOWN SWITCH FOR SOLAR SYSTEM

LABEL LOCATION INVERTER, POINT OF INTERCONNECTION

[PER CODE: NEC 690.56(C)(3)]

SOLAR PV SYSTEM EOUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO **SHUT DOWN PV SYSTEM** AND REDUCE **SHOCK HAZARD IN THE ARRAY**



LABEL LOCATION POINT OF INTERCONNECTION (PER CODE: NEC690.56(C))

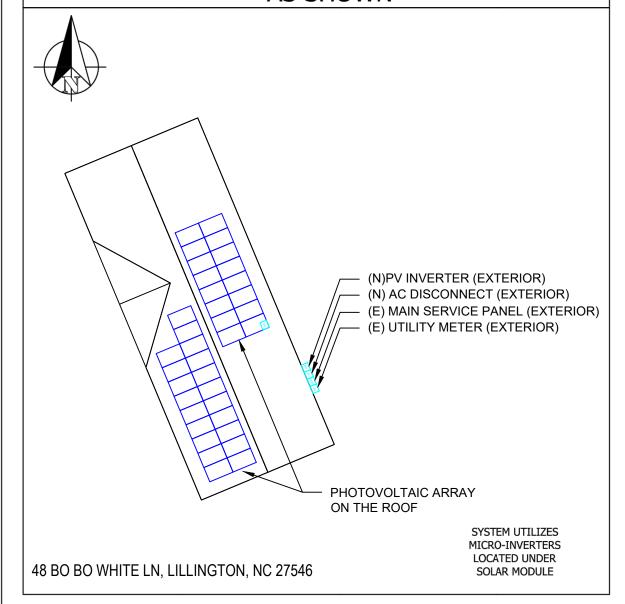
ALL PLACARDS SHALL BE OF WEATHER PROOF CONSTRUCTION, BACKGROUND ON ALL PLACARDS SHALL BE RED WITH WHITE LETTERING U.O.N.

PLACARD SHALL BE MOUNTED DIRECTLY ON THE EXISTING UTILITY ELECTRICAL SERVICE.FASTENERS APPROVED BY THE LOCAL JURISDICTION

NOTE:ALL SIGNAGE CANNOT BE HAND WRITTEN NEC 110.21

WARNING /!\

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





SYSTEM INFORMATION

DC SYSTEM SIZE: 12.600 kW AC SYSTEM SIZE: 10.000 kW ANNUAL SOLAR OUPUT: 15864kWh/an

MODULES:

(36) Q CELLS Q.PEAK DUO-G6+ 350

INVERTER:

(1)SOLAREDGE SE10000H-US

OPTIMIZER DETAILS (36) P370 SOLAR EDGE POWER OPTIMIZER

ENGINEER OF RECORD



09/30/21

CUSTOMER INFORMATION

NAME & ADDRESS: NOE ASAEL AGUILAR AMAYA 48 BO BO WHITE LN, LILLINGTON, NC 27546

GPS: 35.3425154, -78.9448008 APN: 130528 0035

AHJ: NC-HARNETT COUNTY

UTILITY: SOUTH RIVER EMC

PROJECT NUMBER: ----

WARNING PLACARDS

DESIGNER / CHECKED BY: J.B. / J.B.

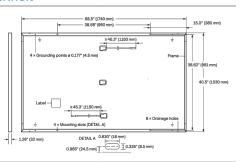
SCALING: AS NOTED PAPER SIZE: 17"x11" E-003

DATE: 9/17/21



MECHANICAL SPECIFICATION

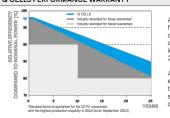
Format	$68.5 \times 40.6 \times 1.26$ in (including frame) (1740 \times 1030 \times 32 mm)
Weight	43.9 lbs (19.9 kg)
Front Cover	0.13in (3.2mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodized aluminum
Cell	6 × 20 monocrystalline Q.ANTUM solar half cells
Junction Box	2.09 - 3.98×1.26 - 2.36×0.59 - 0.71 in (53- 101×32 - 60×15 - 18 mm), Protection class IP67, with bypass diodes
Cable	4mm² Solar cable; (+) ≥45.3 in (1150 mm), (-) ≥45.3 in (1150 mm)
Connector	Stäubli MC4; IP68



ELECTRICAL CHARACTERISTICS

/ER CLASS			340	345	350	355
IMUM PERFORMANCE AT STANDA						
Power at MPP ¹	P _{MPP}	[W]	340	345	350	355
Short Circuit Current ¹	I _{sc}	[A]	10.68	10.73	10.79	10.84
Open Circuit Voltage ¹	V _{oc}	[V]	40.24	40.49	40.73	40.98
Current at MPP	MPP	[A]	10.16	10.22	10.27	10.33
Voltage at MPP	V_{MPP}	[V]	33.45	33.76	34.07	34.38
Efficiency ¹	η	[%]	≥19.0	≥19.3	≥19.5	≥19.8
IMUM PERFORMANCE AT NORMAL	OPERATING COND	DITIONS, NMC)T²			
Power at MPP	P _{MPP}	[W]	254.5	258.2	261.9	265.7
Short Circuit Current	I _{sc}	[A]	8.60	8.65	8.69	8.74
Open Circuit Voltage	V _{oc}	[V]	37.94	38.17	38.41	38.65
Current at MPP	MPP	[A]	8.00	8.04	8.09	8.13
Voltage at MPP	V _{MPP}	[V]	31.81	32.10	32.40	32.69
	IMUM PERFORMANCE AT STANDAL Power at MPP ¹ Short Circuit Current ¹ Open Circuit Voltage ¹ Current at MPP Voltage at MPP Efficiency ¹ IMUM PERFORMANCE AT NORMAL Power at MPP Short Circuit Current Open Circuit Voltage Current at MPP	MUM PERFORMANCE AT STANDARD TEST CONDITION Power at MPP¹	MUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC^4 (PO' Power at MPP^\(1)	MUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹ (POWER TOLERANCE +5 W/−0 Power at MPP¹ Pupe [W] 340	MIUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC³ (POWER TOLERANCE +5W/-OW) Power at MPP¹	MUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC's (POWER TOLERANCE +5W/-OW)

Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.54% degradation per year. At least 93.1% of nominal power up to 10 years. At least 85% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organization of your respective

Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000 W/m²)

TEMPERATURE COEFFICIENTS											
Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of Voc	β	[%/K]	-0.27				
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.36	Nominal Module Operating Temperature	NMOT	[°F]	109±5.4 (43±3°C)				

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V _{sys}	[V]	1000 (IEC)/1000 (UL)	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI/UL 61730	TYPE 2
Max. Design Load, Push / Pull ³	[lbs/ft²] 75 (3600 Pa)/55 (2667 Pa)		Permitted Module Temperature	-40°F up to +185°F
Max. Test Load, Push / Pull3	[lbs/ft²]	113 (5400 Pa) / 84 (4000 Pa)	on Continuous Duty	(-40°C up to +85°C)
³ See Installation Manual		.	•	

QUALIFICATIONS AND CERTIFICATES

PACKAGING INFORMATION

UL 1703, CE-compliant,
VDE Quality Tested
IEC 61215:2016,
IEC 61730:2016,
U.S. Patent No. 9,893,215
(color colle)







Note: installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product. Q CELLS supplies sola modules in two different stacking methods, depending on the location of manufacture (modules are packed horizontally or vertically). You can find more detailed information in the document "Packaging and Transport Information", available from Q CELLS.

Hanwha Q CELLS America Inc.

400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1.949 748 59 96 | EMAIL inquiry@us.q-cells.com | WEB www.q-cells.us



SYSTEM INFORMATION

DC SYSTEM SIZE: 12.600 kW AC SYSTEM SIZE: 10.000 kW ANNUAL SOLAR OUPUT: 15864kWh/an MODULES:

(36) Q CELLS Q.PEAK DUO-G6+ 350

INVERTER: (1)SOLAREDGE SE10000H-US

OPTIMIZER DETAILS

(36) P370 SOLAR EDGE POWER OPTIMIZER

ENGINEER OF RECORD

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UTILITY: SOUTH RIVER EMC

PROJECT NUMBER: ----

MODULE SPECSHEET

DESIGNER / CHECKED BY: J.B. / J.B.

SCALING: AS NOTED	PAPER SI	IZE: 17"x11"
DATE: 9/17/21	REV:A	SS-001

Single Phase Inverter with HD-Wave Technology

for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US





Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking 99% weighted efficiency
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Fixed voltage inverter for longer strings

solaredge.com

Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020 per article 690.11 and 690.12

- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Small, lightweight, and easy to install both outdoors or indoors
- Built-in module-level monitoring
- Optional: Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12.20)

solaredge

/ Single Phase Inverter with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXXXH-XXXXXBXX4							
OUTPUT	2							
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	WA
AC Output Voltage Mini-NomMax. (211–240 - 264)	e ⁸	€.	₹.	-C	₹.	₹.	Ø.	Vac
AC Output Voltage Min.:Nom::Max. (183 = 208 = 229)	MS	*	955	4		CRE	*	Vac
AC Frequency (Nominal)				59.3 - 60 - 60.5			D.	Hz
Maximum Continuous Output Current @240V	12.5	76	21	25	32	42	47,5	-A
Maximum Continuous Output Current @208V	81	16	on.	24:	28	5H	48,5	A
Power Factor			- 1	Adjustable - 0.85 to	0.85		-12-	
GFDI Threshold								
Utility Monitoring, Islanding Protection; Country Configurable Thresholds								
INPUT								
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	N/F
Maximum DC Power @208V	80	5100		7750	(a)	42	15500	W
Transformer-less, Ungrounded		Yes						
Maximum Input Voltage		480						Vdc
Nominal DC Input Voltage		380 400						Vdc
Maximum Input Current @240V	8.5	10.5	13.5	16.5	20	27	30.5	Adc
Maximum Input Current @208V ⁽²⁾	81	9	8	13.5	19	æ	27	Adc
Max Input Short Circuit Current		45						Adc
Reverse Polarity Protection		Yes						
Ground-Fault Isolation Detection	600kg Sénsitivity							
Maximum Inverter Efficiency	99	99 992						%
CEC Weighted Efficiency	99: 98.5 @-208V						%	
Nighttime Power Consumption							-	W

⁽¹⁾ For other regional settings please contact SolarEdge support



SYSTEM INFORMATION

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INVERTER:

(1)SOLAREDGE SE10000H-US OPTIMIZER DETAILS

(36) P370 SOLAR EDGE POWER OPTIMIZER

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UTILITY: SOUTH RIVER EMC

PROJECT NUMBER: ----

INVERTER SPECSHEET

DESIGNER / CHECKED BY: J.B. / J.B.

SCALING: AS NOTED	PAPER S	IZE: 17"x11"	
DATE: 9/17/21	REV:A	SS-002	

⁽²⁾ A higher current source may be used; the inverter will limit its input current to the values stated

Power Optimizer

For North America P370 / P400 / P401 / P485 / P505



PV power optimization at the module-level

- Specifically designed to work with SolarEdge
- / Up to 25% more energy
- Superior efficiency (99.5%)

solaredge.com

- / Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- Flexible system design for maximum space

- Fast installation with a single bolt
- Next generation maintenance with modulelevel monitoring
- Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- Module-level voltage shutdown for installer and firefighter safety



/ Power Optimizer For North America

P370 / P400 / P401 / P485 / P505

Optimizer model (typical module compatibility)	P370 (for higher-power 60 and 72-cell modules)		P401 (for high power 60 and 72 cell modules)	P485 (for high-voltage modules)	P505 (for higher current modules)		
INPUT	!	1					
Rated Input DC Power®	370		400	485	505	W	
Absolute Maximum Input Voltage (Voc at lowest temperature)	60	80	60	125 ⁽²⁾	83©	Vdc	
MPPT Operating Range	8 - 60	8 - 80	8-60	12.5 - 105	12.5 - 83	Vdc	
Maximum Short Circuit Current (Isc)	11	10.1	11,75	11	14	Adc	
Maximum Efficiency			99.5			%	
Weighted Efficiency			98.8			%	
Overvoltage Category			1				
OUTPUT DURING OPERATIO	N (POWER OPTIMIZE	R CONNECTED	TO OPERATING SOI	AREDGE INVERT	ER)		
Maximum Output Current			15			Adc	
Maximum Output Voltage		60		8	5	Vdc	
OUTPUT DURING STANDBY (F	OWER OPTIMIZER DI	ISCONNECTED	FROM SOLAREDGE IN	VERTER OR SOLA	REDGE INVERTER	OFF)	
Safety Output Voltage per Power Optimizer			1 ± 0.1			Vdc	
STANDARD COMPLIANCE							
Photovoltaic Rapid Shutdown System	1	NEC 2014, 2017 & 202	0	NEC 2014, 2017 & 2020	NEC 2014, 2017 & 2020		
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3						
Safety		IE	C62109-1 (class II safety), UL17	41			
Material		UL94 V-O , UV Resistant					
RoHS			Yes				
INSTALLATION SPECIFICATION	NS						
Maximum Allowed System Voltage			1000			Vdc	
Compatible inverters	All SolarEdge Single Phase and Three Phase inverters						
Dimensions (W x L x H)	129 x 153 x 27.5 / 5.1 x 6 x 1.1	129 x 153 x 33.5 / 5.1 x 6 x 1.3	129 x 153 x 29.5 /5.1 x 6 x 1.16	129 x 153 x 33.5 / 5.1 x 6 x 1.3	129 x 162 x 59 / 5.1 x 6.4 x 2.3	mm / in	
Weight (including cables)	655 / 1.4	750 / 1.7	655 / 1.4	845 / 1.9	1064 / 2.3	gr/lb	
Input Connector		MC4 ⁽³⁾		Single or dual MC4(9)(4)	MC4 ⁽³⁾		
Input Wire Length	0.16 / 0.52, 0.9 / 2,95(4)	0.16 / 0.52	0.16 / 0.52, 0.9 / 2.95(4)	0.16 / 0.52	0.16 / 0.52	m/ft	
Output Wire Type / Connector			Double Insulated / MC4	.'			
Output Wire Length	1.2 / 3.9						
Operating Temperature Range ⁽⁵⁾	-40 to +85 / -40 to +185					°C / °F	
Protection Rating	IP68 / NEMA6P						
Relative Humidity	0 - 100						

- (1) Rated power of the module at STC will not exceed the optimizer "Rated Input DC Power". Modules with up to +5% power tolerance are allowed
- (2) NEC 2017 requires max input voltage be not more than 80V
- (4) For dual version for parallel connection of two modules use P485-4NMDMRM. In the case of an odd number of PV modules in one string, installing one P485 dual version power optimizer connected
- to one PV module. When connecting a single module seal the unused input connectors with the supplied pair of seals

 (5) For amblent temperature above +85°C / +185°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details

PV System Design Using a SolarEdge Inverter ⁽⁶⁾⁽⁷⁾		Single Phase HD-Wave Single phase		Three Phase for 208V grid	Three Phase for 277/480V grid	
Minimum String Length	P370, P400, P401	8		10	18	
(Power Optimizers)	P485, P505	6		8	14	
Maximum String Length (Power Optimizers)		25		25	50	
Maximum Nominal Power per String		5700 [®] (6000 with SE7600-US - SE11400-US) 5250 [®]		6000 [®]	12750(10)	W
Parallel Strings of Different Lengths or Orientations		Yes				

- (6) For detailed string sizing information refer to: http://www.soleredge.com/sites/default/files/string_sizing_na.pdf (7) It is not allowed to mix P485/P505 with P370/P400/P401 in one string
- (8) If the inverters rated AC power < maximum nominal power per string, then the maximum power per string will be able to reach up to the inverters maximum input DC power. Refer to: https://www.solaredge (9) For 208V grid: it is allowed to install up to 15,000W per string when the maximum power per string which each string is 1,000W (10) For 277/480V grid: it is allowed to install up to 15,000W per string when the maximum power difference between each string is 2,000W (10) For 277/480V grid: it is allowed to install up to 15,000W per string when the maximum power difference between each string is 2,000W

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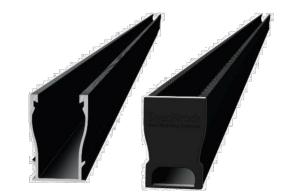
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UR-40 UR-60

Ultra Rail





The Ultimate Value in Rooftop Solar



Industry leading Wire Management Solutions



Mounts available for all roof types



Single Tool Installation



All SnapNrack Module Clamps & Accessories are compatible with both rail profiles

Start Installing Ultra Rail Today

RESOURCES DESIGN WHERE TO BUY snapnrack.com/resources snapnrack.com/configurator snapnrack.com/where-to-buy

SnapNrack Ultra Rail System

A sleek, straightforward rail solution for mounting solar modules on all roof types. Ultra Rail features two rail profiles; UR-40 is a lightweight rail profile that is suitable for most geographic regions and maintains all the great features of SnapNrack rail, while UR-60 is a heavier duty rail profile that provides a larger rail channel and increased span capabilities. Both are compatible with all existing mounts, module clamps, and accessories for ease of install.

The Entire System is a Snap to Install

- New Ultra Rail Mounts include snap-in brackets for attaching rail
- Compatible with all the SnapNrack Mid Clamps and End Clamps customers love
- Universal End Clamps and snap-in End Caps provide a clean look to the array edge



Unparalleled Wire Management

- Open rail channel provides room for running wires resulting in a long-lasting quality install
- Industry best wire management offering includes Junction Boxes, Universal Wire Clamps, MLPE Attachment Kits, and Conduit Clamps
- System is fully bonded and listed to UL 2703
 Standard

Heavy Duty UR-60 Rail

- UR-60 rail profile provides increased span capabilities for high wind speeds and snow loads
- Taller, stronger rail profile includes profilespecific rail splice and end cap
- All existing mounts, module clamps, and accessories are retained for the same great install experience



Quality. Innovative. Superior.

SnapNrack Solar Mounting Solutions are engineered to optimize material use and labor resources and improve overall installation quality and safety.

877-732-2860

www.snapnrack.com

contact@snapnrack.com

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Sustainable Energy & Lighting Solutions Your future is brighter with usl

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RACKING SPECSHEET

DESIGNER / CHECKED BY: J.B. / J.B.

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DATE: 9/17/21 REV:A SS-004