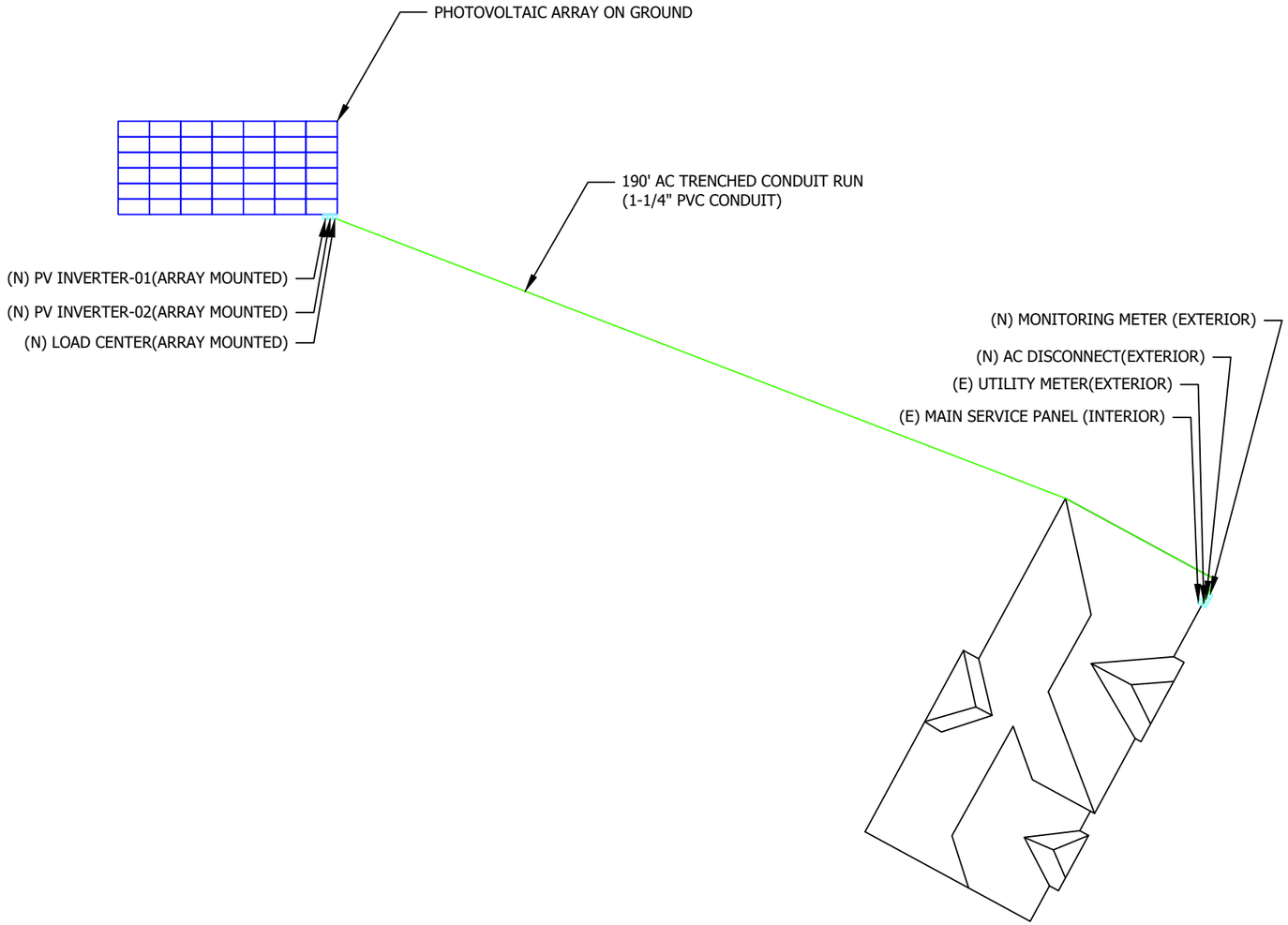
KAREN WEINSEISS RESIDENCE- 16.800kW DC, 16.000kW AC

SITE PLAN-1



A | SITE PLAN
PV-1.0 | SCALE: 1"=30'-0"

A1 | VICINITY MAP
PV-1.0 | SCALE: NTS

GENERAL INFORMATION

ELECTRIC CODE	NEC 2017
FIRE CODE	IFC 2015
RESIDENTIAL CODE	IRC 2015
BUILDING CODE	IBC 2015
WIND SPEED	120 MPH
SNOW LOAD	30 PSF

INDEX

INDEX NO.	DESCRIPTION
PV-1.0	SITE PLAN-1
PV-1.1	SITE PLAN-2
PV-2.0	GENERAL NOTES
PV-3.0	MOUNTING DETAILS
PV-3.1	STRUCTURAL DETAILS
PV-4.0	SINGLE LINE DIAGRAM
PV-5.0	WARNING PLACARDS
SS	SPEC SHEET(S)

RVR ENGINEERING

SYSTEM INFORMATION

DC SYSTEM SIZE: 16800W
AC SYSTEM SIZE: 16000W
MODULES:
(42)HANWHA Q CELLS Q.PRO L-G5.3 400W
INVERTER:
(1)SOLAREDGE TECHNOLOGIES SE10000H-US(240V)
(1)SOLAREDGE TECHNOLOGIES SE6000H-US(240V)
OPTIMIZER:
(42) P400 SOLAREDGE POWER OPTIMIZER

ENGINEER OF RECORD

SAVKAT

1730 NEW BRITAIN AVE, FARMINGTON
CT 06032
TEL NO : 860-288-7557
LIC :#HIC@0648178
ELECTRICIAN INFORMATION:
MICHAEL JOSEPH
0188969.E1

CUSTOMER INFORMATION

NAME&ADDRESS:

KAREN WEINSEISS
81 TRANQUILITY DR, EASTON, CT 06612

41°17'08.2"N 73°18'58.4"W
APN:EASTM:3781B:54L:11

AHJ:CT-TOWN OF EASTON

PROJECT NUMBER:SAVK-000802

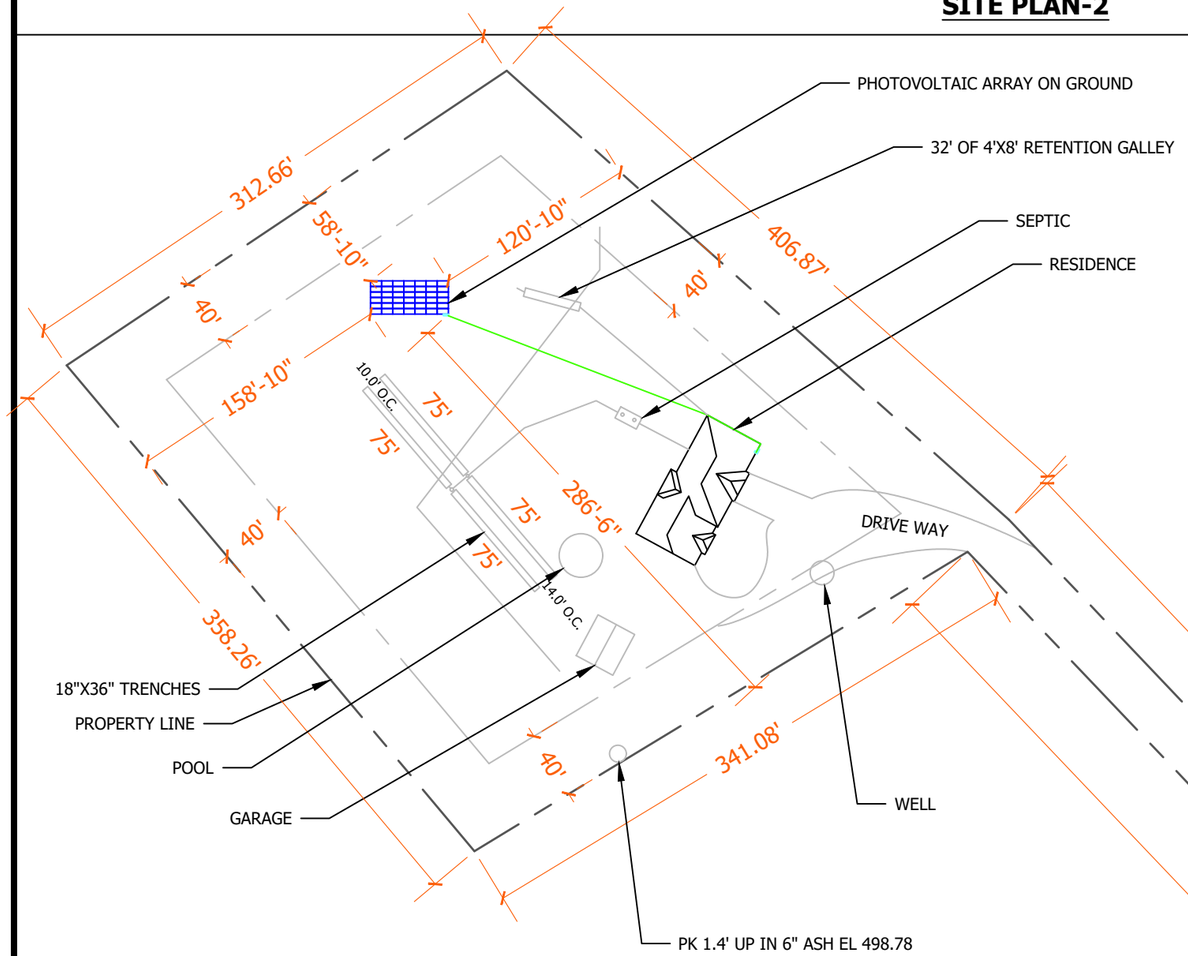
SITE PLAN-1

DESIGNER/CHECKED BY:
PR/RR

SCALE:AS NOTED	PAPER SIZE:17"x11"	
DATE:10/09/2020	REV:A	PV-1.0

KAREN WEINSEISS RESIDENCE - 16.800kW DC, 16.000kW AC

SITE PLAN-2



A | SITE PLAN
PV-1.1 | SCALE: 1"=90'-0"

RVR ENGINEERING

SYSTEM INFORMATION

DC SYSTEM SIZE: 16800W
AC SYSTEM SIZE: 16000W
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SITE PLAN-2

DESIGNER/CHECKED BY:
PR/RR

SCALE:AS NOTED	PAPER SIZE:17"x11"	
DATE:10/09/2020	REV:A	PV-1.1

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.
3. 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 CODE.
5. ALL GROUND WIRING CONNECTED TO THE MAIN SERVICE GROUNDING IN MAIN SERVICE PANEL/ SERVICE EQUIPMENT.
6. ALL CONDUCTORS SHALL BE 600V, 75°C STANDARD COPPER UNLESS OTHERWISE NOTED.
7. THE SYSTEM WILL NOT BE INTERCONNECTED BY THE CONTRACTOR UNTIL APPROVAL FROM THE LOCAL JURISDICTION AND/OR THE UTILITY.
8. PV ARRAY COMBINER/JUNCTION BOX PROVIDES TRANSITION FROM ARRAY WIRING TO CONDUIT WIRING

EQUIPMENT LOCATION:

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

.

WIRING & CONDUIT NOTES:

15. 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.
16. CONDUCTORS SIZED ACCORDING TO NEC CODES.
17. DC WIRING LIMITED TO MODULE FOOTPRINT. MICRO INVERTER WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY WITH SUITABLE WIRING CLIPS.
18. 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 CODE].

INTERCONNECTION NOTES:

24. LOAD-SIDE INTERCONNECTION SHALL BE IN ACCORDANCE WITH [NEC CODE]
25. THE SUM OF THE UTILITY OCPD AND INVERTER CONTINUOUS INPUT MAY NOT EXCEED 120% OF BUSBAR RATING [NEC CODE].
26. 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 CODE].
27. 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 CODE.
28. FEEDER TAP INTER CONNECTION (LOAD SIDE) ACCORDING TO NEC CODE
29. SUPPLY SIDE TAP INTERCONNECTION ACCORDING TO NEC CODE WITH SERVICE ENTRANCE CONDUCTORS IN ACCORDANCE WITH NEC CODE
30. BACK FEEDING BREAKER FOR UTILITY-INTERACTIVE INVERTER OUTPUT IS EXEMPT FROM ADDITIONAL FASTENING [NEC CODE].

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 CODE AND MINIMUM NEC TABLE CODE.
33. EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED ACCORDING TO NEC CODE AND MICRO INVERTER MANUFACTURER'S INSTRUCTIONS.
34. 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.
35. GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLORED GREEN OR MARKED GREEN IF #4 AWG OR LARGER [NEC CODE]
36. 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).
37. DISCONNECTS TO BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH
38. 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 CODE]. LOCATION OF LABEL ACCORDING TO AHJ.
39. ALL OCPD RATINGS AND TYPES SPECIFIED ACCORDING TO NEC CODE.

RVR ENGINEERING

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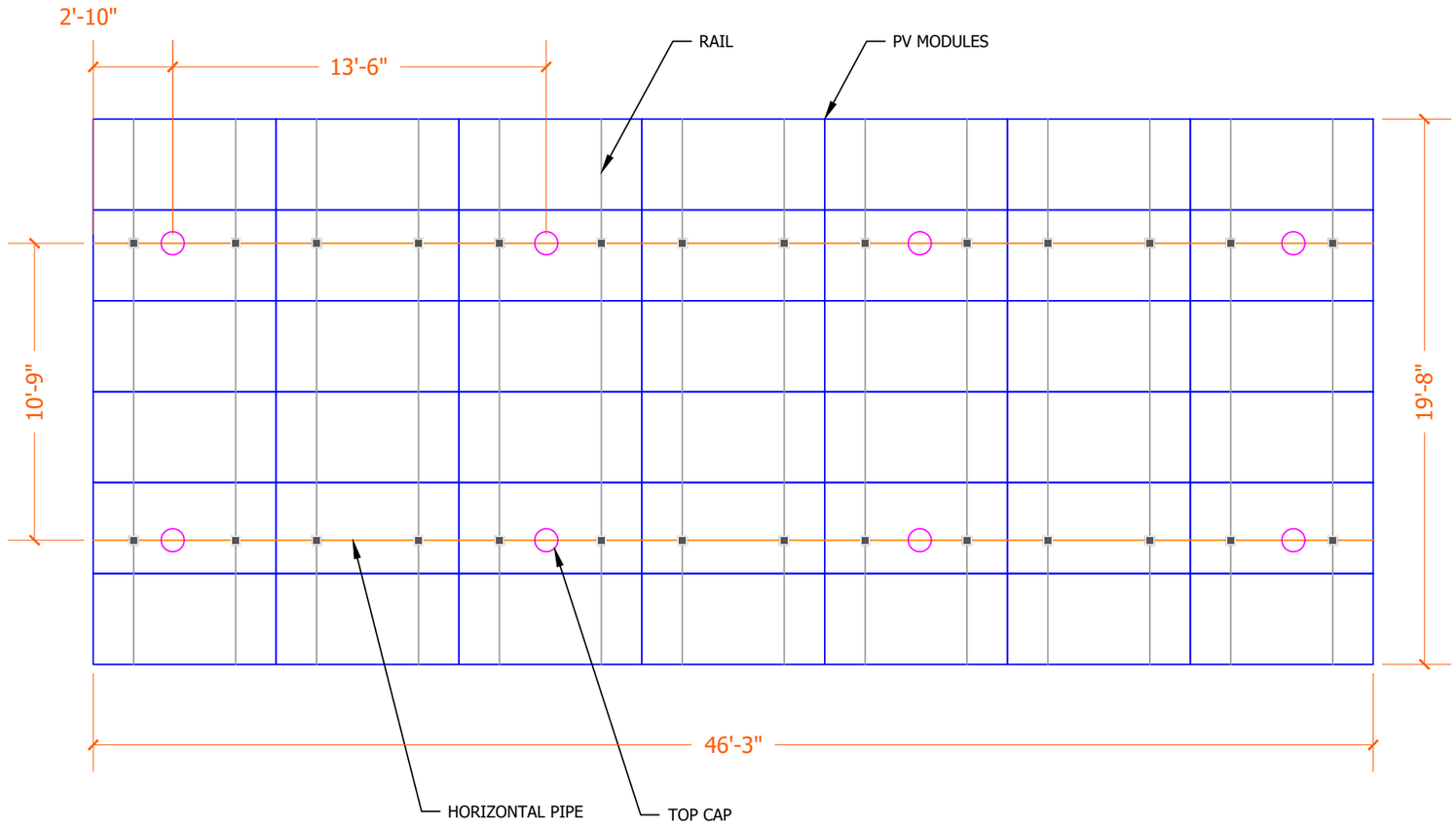
PROJECT NUMBER:SAVK-000802

GENERAL NOTES

DESIGNER/CHECKED BY:
PR/RR

SCALE:AS NOTED	PAPER SIZE:17"x11"	
DATE:10/09/2020	REV:A	PV-2.0

MOUNDING DETAILS



B | MOUNTING DETAILS
PV-3.0 | SCALE: 3/16" = 1'-0"

B1 | AERIAL VIEW
PV-3.0 | SCALE: NTS

MODULES DATA	
HANWHA Q CELLS Q.PRO L-G5.3 400W	
MODULE DIMS	79.3"x39.4"x1.38"
SITE INFORMATION	
AZIMUTH	180°
PITCH	25°
NO. OF MODULES	42

RVR ENGINEERING

SYSTEM INFORMATION

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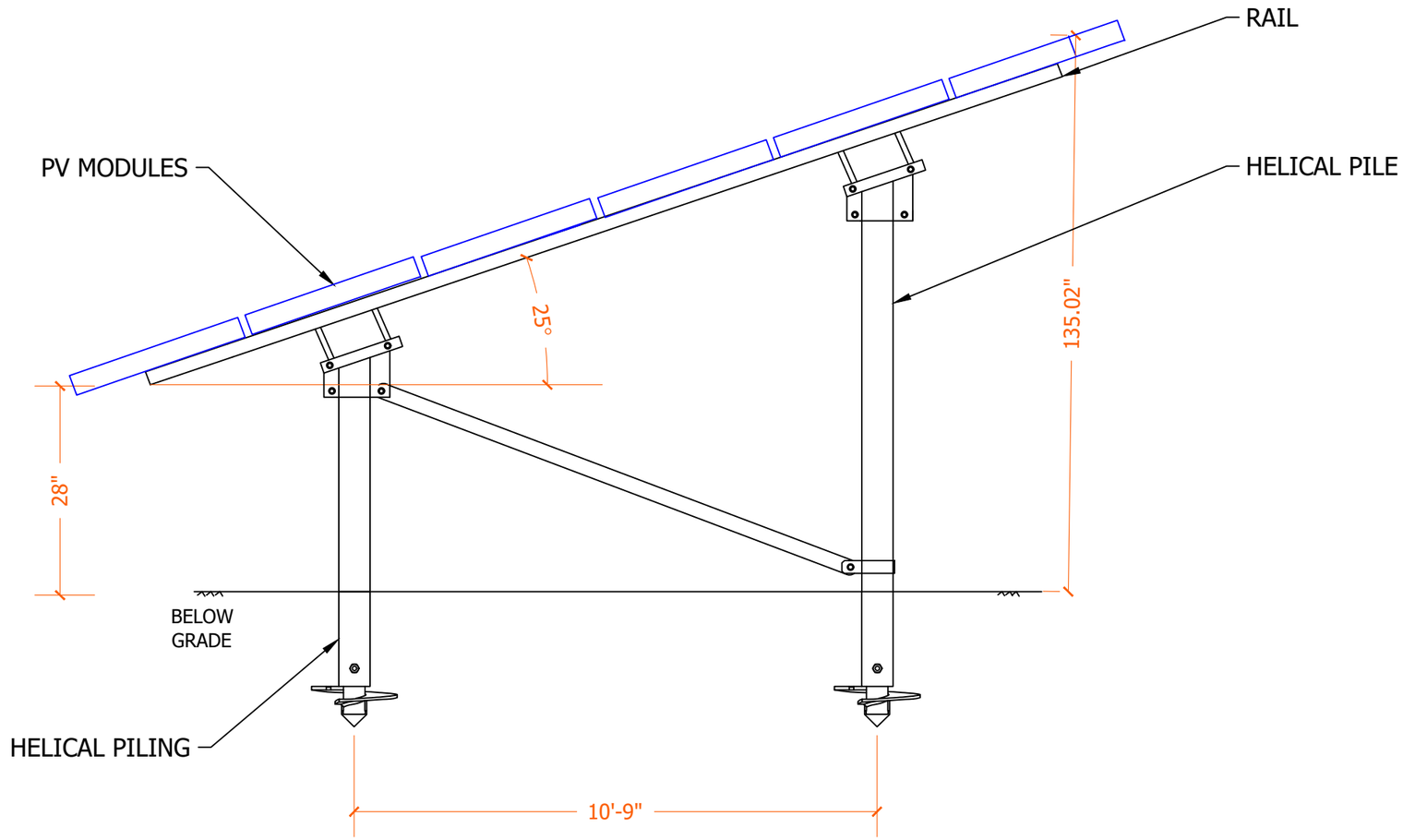
DESIGNER/CHECKED BY:
PR/RR

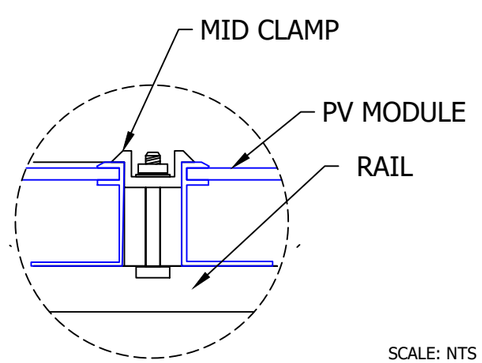
SCALE:AS NOTED	PAPER SIZE:17"x11"	
DATE:10/09/2020	REV:A	PV-3.0

GROUND MOUNT DETAIL



SCALE: NTS

MID-CLAMP & END CLAMP DETAIL



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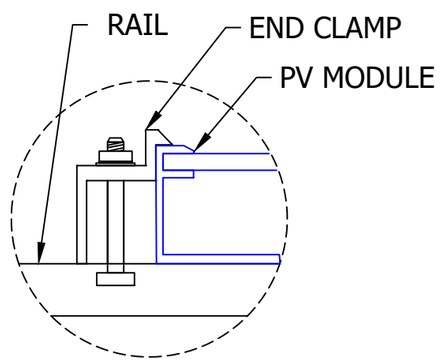

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PROJECT NUMBER:SAVK-000802

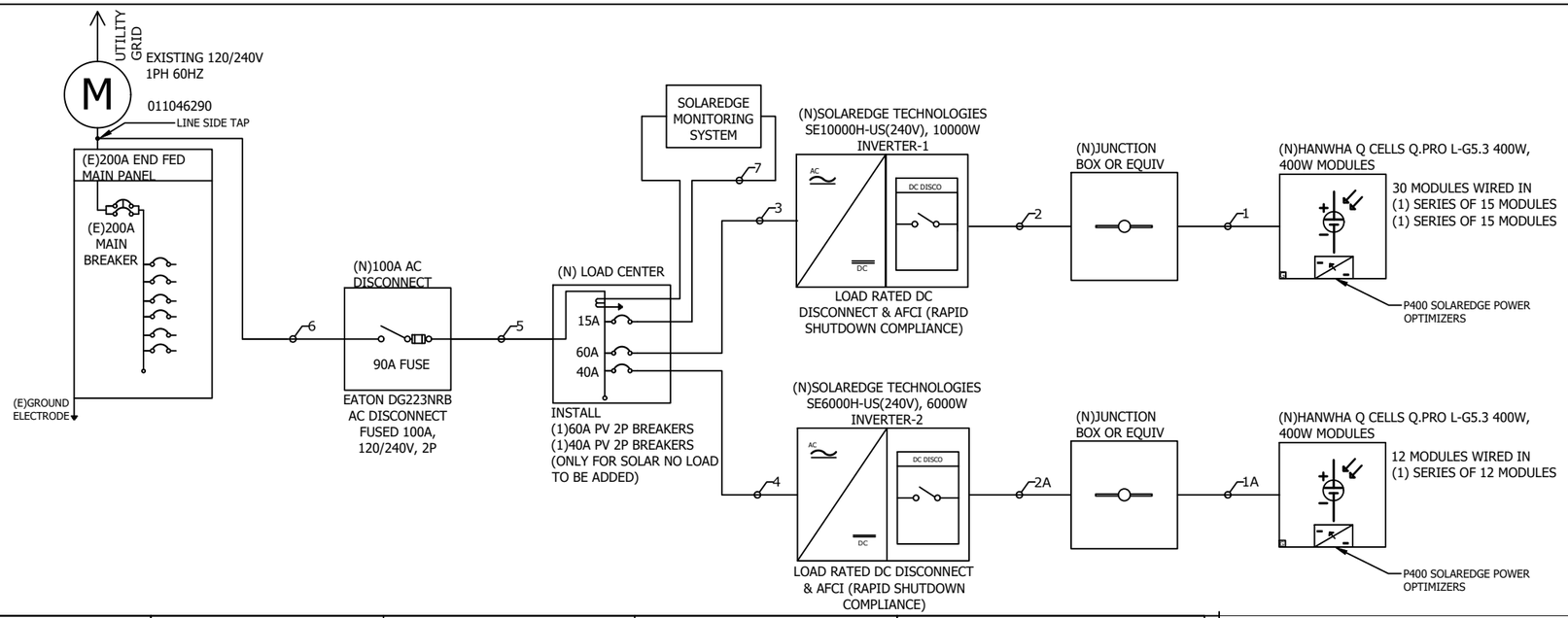
STRUCTURAL DETAILS

DESIGNER/CHECKED BY:
PR/RR

SCALE:AS NOTED	PAPER SIZE:17"x11"	
DATE:10/09/2020	REV:A	PV-3.1

SINGLE LINE DIAGRAM: DC SYSTEM SIZE - 16800W, AC SYSTEM SIZE - 16000W

VOLTAGE DROP CALCULATION	
Select Material	Cu
Select Wire Size	1
Select Conduit Type	PVC
Select Voltage & Phase	240 1-phase
Enter Distance to Load (ft)	190
Enter Load (Amps)	67
OUTPUTS	
Voltage Drop (Volts)	3.92
% Voltage Drop	1.64
VARIABLES	
Phase Factor	2
K	12.9
Q-Factor	1
Circular Mils	83690



MODULE SPECIFICATION	
MODEL	HANWHA Q CELLS Q.PRO L-G5.3 400W
MODULE POWER @ STC	400W
OPEN CIRCUIT VOLTAGE:**Voc**	49.00V
MAX POWER VOLTAGE:**Vmp**	41.04V
SHORT CIRCUIT VOLTAGE:**Isc**	10.24A
MAX POWER CURRENT:**Imp**	9.75A

SPECIFICATIONS	INVERTER-1	INVERTER-2
MODEL	SOLAREDGE TECHNOLOGIES SE10000H-US(240V)	SOLAREDGE TECHNOLOGIES SE6000H-US(240V)
POWER RATING	10000W	6000W
MAX OUTPUT CURRENT	42A	25A
CEC WEIGHTED EFFICIENCY	99%	99%
MAX INPUT CURRENT	27A	16.5A
MAX DC VOLTAGE	480V	480V

OPTIMIZER CHARACTERISTICS	
MODEL	**P400**
MIN INPUT VOLTAGE	8 VDC
MAX INPUT VOLTAGE	80 VDC
MAX INPUT CURRENT	12.5 ADC
MAX OUTPUT CURRENT	15 ADC

OCPD CALCULATIONS:

MAIN PANEL RATING:200A,

MAIN BREAKER RATING:200A

LINE SIDE TAP:100% ALLOWABLE BACKFEED IS 200A

INVERTER OVERCURRENT PROTECTION= INVERTER O/P I X CONTINUOUS LOAD(1.25)X #OF INVERTERS =42+25x1.25x1=83.75 A

=>PV BREAKER = 90A

CONDUIT SCHEDULE

TAG ID	CONDUIT SIZE	CONDUCTOR	NEUTRAL	GROUND
1	NONE	(4) 10AWG PV WIRE	NONE	(1) 6 AWG BARE COPPER
2	3/4"EMT OR EQUIV	(4) 10AWG THHN/THWN-2	NONE	(1) 10 AWG THHN/THWN-2
1A	NONE	(2) 10AWG PV WIRE	NONE	(1) 6 AWG BARE COPPER
2A	3/4"EMT OR EQUIV	(2) 10AWG THHN/THWN-2	NONE	(1) 10 AWG THHN/THWN-2
3	3/4"EMT OR EQUIV	(2) 6 AWG THHN/THWN-2	(1) 6 AWG THHN/THWN-2	(1) 10 AWG THHN/THWN-2
4	3/4"EMT OR EQUIV	(2) 8 AWG THHN/THWN-2	(1) 8 AWG THHN/THWN-2	(1) 10 AWG THHN/THWN-2
5	1-1/4" SCH 40 PVC (BELOW GROUND) 1-1/4" SCH 80 PVC (ABOVE GROUND)	(2) 1 AWG THHN/THWN-2	(1) 1 AWG THHN/THWN-2	(1) 8 AWG THHN/THWN-2
6	1-1/4"EMT OR EQUIV	(2) 1 AWG THHN/THWN-2	(1) 1 AWG THHN/THWN-2	(1) 8 AWG THHN/THWN-2
7	3/4"EMT OR EQUIV	(2) 12 AWG THHN/THWN-2	(1) 12 AWG THHN/THWN-2	(1) 12 AWG THHN/THWN-2

SYSTEM CHARACTERISTICS	INVERTER 1	INVERTER 2
DC SYSTEM SIZE	12000 W	4800 W
INVERTER STRING VOLTAGE:**Vmp**	400V	380V
MAX INVERTER SYSTEM VOLTAGE: **Voc**	480V	480V
MAX SHORT CIRCUIT CURRENT	30A	15A
OPERATING CURRENT	30.00A	12.63A

ELECTRICAL NOTES:

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).
6. MAX. SYSTEM VOLTAGE CORRECTION IS PER NEC 690.7.7. 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).

ELECTRICAL CALCULATION

DC WIRE CALCULATIONS:- MATERIAL:COPPER & TEMPERATURE RATING:90°C

TAG ID	REQUIRED CONDUCTOR AMPACITY											CORRECTED AMPACITY CALCULATION							TERMINAL RATING CHECK			DERATED CONDUCTOR AMPACITY CHECK		
1	1	X	15	X	1	=	15	X	1.25	=	18.75A	40	X	0.58	X	1	=	23.20A	18.75A	<	30A	18.75A	<	23.20A
2	1	X	15	X	1	=	15	X	1.25	=	18.75A	40	X	0.71	X	0.8	=	22.72A	18.75A	<	30A	18.75A	<	22.72A

AC WIRE CALCULATIONS:- MATERIAL:COPPER & TEMPERATURE RATING:90°C

TAG ID	REQUIRED CONDUCTOR AMPACITY									CORRECTED AMPACITY CALCULATION							TERMINAL RATING CHECK			DERATED CONDUCTOR AMPACITY CHECK		
3	42	X	1	=	42	X	1.25	=	52.50A	75	X	0.87	X	1	=	65.25A	52.50A	<	55A	52.50A	<	65.25A
4	25	X	1	=	25	X	1.25	=	31.25A	55	X	0.87	X	1	=	47.85A	31.25A	<	40A	31.25A	<	47.85A
5	67	X	1	=	67	X	1.25	=	83.75A	145	X	0.87	X	1	=	126.15A	83.75A	<	110A	83.75A	<	126.15A

RVR ENGINEERING

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SINGLE LINE DIAGRAM

DESIGNER/CHECKED BY:
PR/RR

SCALE:AS NOTED	PAPER SIZE:17"x11"	
DATE:10/09/2020	REV:A	PV-4.0

WARNING PLACARDS

WARNING

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

LABEL LOCATION
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

LABEL 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 VOLTAGE	480	VDC
MAXIMUM CIRCUIT CURRENT	30	ADC
MAX RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER(IF INSTALLED)	15	ADC

LABEL LOCATION
DC DISCONNECT SWITCH, INVERTER-01
[PER. CODE: CEC 690.53]

PHOTOVOLTAIC SYSTEM AC DISCONNECT SWITCH

RATED AC OPERATING CURRENT	67	AMPS AC
AC NOMINAL OPERATING VOLTAGE	240	VAC

LABEL LOCATION
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

LABEL LOCATION
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

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

CAUTION: SOLAR ELECTRIC SYSTEM CONNECTED

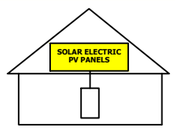
LABEL LOCATION
WEATHER RESISTANT MATERIAL, DURABLE ADHESDIVE, UL969 AS STANDARD TO WEATHER RATING (UL LISTING OF MARKINGS NOT REQUIRED), MIN ⅜" LETTER HEIGHT ARIAL OR SIMILAR FONT NON-BOLD,PLACED WITHIN THE MAIN SERVICE DISCONNECT,PLACED ON THE OUTSIDE OF THE COVER WHEN DISCONNECT IS OPERATED WITH THE 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 EQUIPPED WITH RAPID SHUTDOWN

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



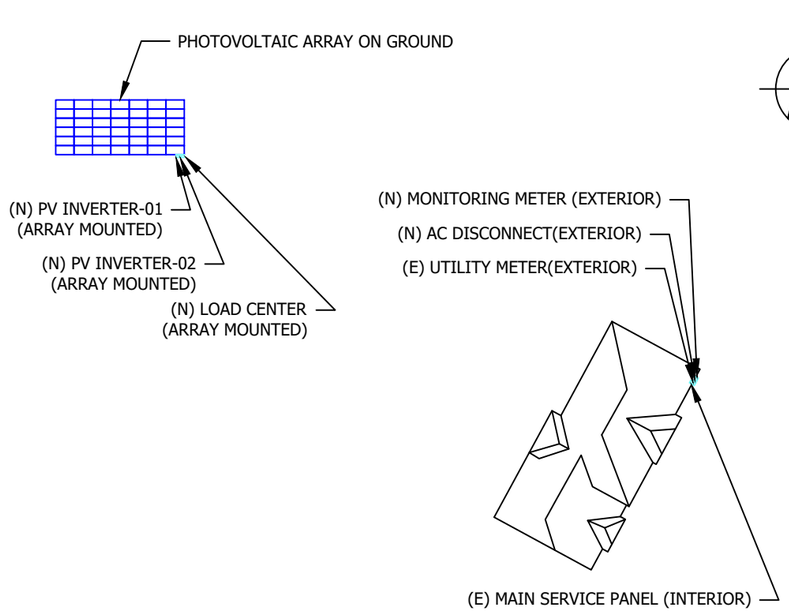
LABEL LOCATION
AC DISCONNECT, DC DISCONNECT, POINT OF INTERCONNECTION
(PER CODE: NEC690.56(C)(1)(A))

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



81 TRANQUILITY DR, EASTON, CT 06612

PHOTOVOLTAIC SYSTEM DC DISCONNECT

MAXIMUM VOLTAGE	480	VDC
MAXIMUM CIRCUIT CURRENT	30	ADC
MAX RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER(IF INSTALLED)	15	ADC

LABEL LOCATION
DC DISCONNECT SWITCH, INVERTER-02
[PER. CODE: CEC 690.53]

RVR ENGINEERING

SYSTEM INFORMATION

DC SYSTEM SIZE: 16800W
AC SYSTEM SIZE: 16000W
MODULES:
(42)HANWHA Q CELLS Q.PRO L-G5.3 400W
INVERTER:
(1)SOLAREDGE TECHNOLOGIES SE10000H-US(240V)
(1)SOLAREDGE TECHNOLOGIES SE6000H-US(240V)
OPTIMIZER:
(42) P400 SOLAREDGE POWER OPTIMIZER

ENGINEER OF RECORD

SAVKAT

1730 NEW BRITAIN AVE, FARMINGTON
CT 06032
TEL NO : 860-288-7557
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ELECTRICIAN INFORMATION:
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0188969.E1

CUSTOMER INFORMATION

NAME&ADDRESS:

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41°17'08.2"N 73°18'58.4"W
APN:EASTM:3781B:54L:11

AHJ:CT-TOWN OF EASTON

PROJECT NUMBER:SAVK-000802

WARNING PLACARDS

DESIGNER/CHECKED BY:
PR/RR

SCALE:AS NOTED	PAPER SIZE:17"x11"	
DATE:10/09/2020	REV:A	PV-5.0

powered by Q.ANTUM DUO

Q.PEAK DUO L-G5.3
380-400

ENDURING HIGH PERFORMANCE

pv magazine award 2017 Top Innovation

EUPD RESEARCH TOP BRAND PV MODULES EUROPE 2019

Photon Q.PRO-G2 235 Best polycrystalline solar module 2014 Q CELLS 174 modules tested

Q CELLS YIELD SECURITY – ANTI PID TECHNOLOGY (APT) · HOT-SPOT PROTECT (HSP) · TRACEABLE QUALITY (TRA.Q™) · ANTI LID TECHNOLOGY (ALT)

Q.ANTUM TECHNOLOGY: LOW LEVELISED COST OF ELECTRICITY
Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 20.1%.

INNOVATIVE ALL-WEATHER TECHNOLOGY
Optimal yields, whatever the weather with excellent low-light and temperature behaviour.

ENDURING HIGH PERFORMANCE
Long-term yield security with Anti LID Technology, Anti PID Technology[1], Hot-Spot Protect and Traceable Quality Tra.Q™.

EXTREME WEATHER RATING
High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (2400 Pa).

A RELIABLE INVESTMENT
Inclusive 12-year product warranty and 25-year linear performance warranty[2].

STATE OF THE ART MODULE TECHNOLOGY
Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

[1] APT test conditions according to IEC/TS 62804-1:2015, method B (−1500 V, 168 h)
[2] See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:

Rooftop arrays on commercial / industrial buildings

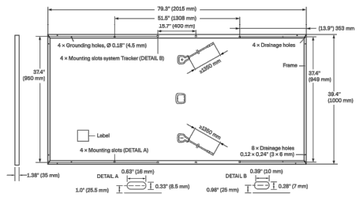
Ground-mounted solar power plants

Engineered in Germany

Q CELLS

MECHANICAL SPECIFICATION

Format	79.3 in × 39.4 in × 1.38 in (including frame) (2015 mm × 1000 mm × 35 mm)
Weight	50.7 lbs (23 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Anodized aluminum
Cell	6 × 24 monocrystalline Q.ANTUM solar half cells
Junction Box	2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥53.1 in (1350 mm), (−) ≥53.1 in (1350 mm)
Connector	Stäubli MC4-Evo2, Amphenol UTX, Renhe 05-8, Tonglin TL-Cable01S-F; IP68 or Friends PV2e; IP67

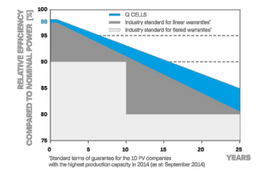


ELECTRICAL CHARACTERISTICS

POWER CLASS				380	385	390	395	400
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC[1] (POWER TOLERANCE +5 W / −0 W)								
Minimum	Power at MPP[1]	P_{MPP}	[W]	380	385	390	395	400
	Short Circuit Current[1]	I_{SC}	[A]	10.05	10.10	10.14	10.19	10.24
	Open Circuit Voltage[1]	V_{OC}	[V]	47.95	48.21	48.48	48.74	49.00
	Current at MPP	I_{MPP}	[A]	9.57	9.61	9.66	9.70	9.75
	Voltage at MPP	V_{MPP}	[V]	39.71	40.05	40.38	40.71	41.04
	Efficiency[1]	η	[%]	≥18.9	≥19.1	≥19.4	≥19.6	≥19.9
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT[2]								
Minimum	Power at MPP	P_{MPP}	[W]	284.4	288.2	291.9	295.6	299.4
	Short Circuit Current	I_{SC}	[A]	8.10	8.14	8.17	8.21	8.25
	Open Circuit Voltage	V_{OC}	[V]	45.21	45.46	45.71	45.96	46.21
	Current at MPP	I_{MPP}	[A]	7.53	7.57	7.60	7.64	7.67
	Voltage at MPP	V_{MPP}	[V]	37.77	38.08	38.40	38.71	39.02

[1] Measurement tolerances P_{MPP} ±3%; I_{SC}; V_{OC} ±5% at STC: 1000 W/m², 25±2 °C, AM 1.5 G according to IEC 60904-3 • [2] 800 W/m², NMOT, spectrum AM 1.5 G

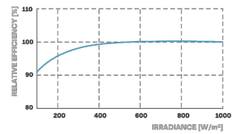
Q CELLS PERFORMANCE WARRANTY



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 organisation of your respective country.

PERFORMANCE AT LOW IRRADIANCE



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 V_{OC}	β	[%/K]	−0.27
Temperature Coefficient of P_{MPP}	γ	[%/K]	−0.36	Normal Module Operating Temperature	NMOT	[°F]	109±5.4 (43±3 °C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V_{SYS}	[V]	1500 (IEC) / 1500 (UL)	Safety Class	II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating	C / TYPE 1
Max. Design Load, Push / Pull[3]	[lbs / ft²]	75 (3600 Pa) / 33 (1600 Pa)	Permitted Module Temperature on Continuous Duty	−40 °F up to +185 °F (−40 °C up to +85 °C)
Max. Test Load, Push / Pull[3]	[lbs / ft²]	113 (5400 Pa) / 50 (2400 Pa)		

[3] See Installation Manual

QUALIFICATIONS AND CERTIFICATES

UL 1703, CE-compliant, IEC 61215:2016, IEC 61730:2016, Application Class II, U.S. Patent No. 9,893,215 (solar cells)

PACKAGING INFORMATION

Number of Modules per Pallet	29
Number of Pallets per 53' Trailer	27
Number of Pallets per 40' HC-Container	22
Pallet Dimensions (L × W × H)	81.9 × 45.3 × 46.9 in (2080 × 1150 × 1190 mm)
Pallet Weight	1603 lbs (727 kg)

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.

Hanwha Q CELLS America Inc.
400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | **TEL** +1 949 748-5996 | **EMAIL** inquiry@us.q-cells.com | **WEB** www.q-cells.com/na

RVR ENGINEERING

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MODULE SPECSHEET

DESIGNER/CHECKED BY:
PR/RR

SCALE:AS NOTED	PAPER SIZE:17"x11"	
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Single Phase Inverter with HD-Wave Technology

for North America

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

INVERTERS

12-25 YEAR WARRANTY

Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking efficiency
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12
- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Extremely small
- Built-in module-level monitoring
- Outdoor and indoor installation
- Optional: Revenue grade data, ANSI C12.20 Class 0.5 (0.5% accuracy)

solaredge.com

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Single Phase Inverter with HD-Wave Technology for North America

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

	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
OUTPUT								
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	VA
AC Output Voltage Min.-Nom.-Max. (211 - 240 - 264)	✓	✓	✓	✓	✓	✓	✓	Vac
AC Output Voltage Min.-Nom.-Max. (183 - 208 - 229)	-	✓	-	✓	-	-	✓	Vac
AC Frequency (Nominal)	59.3 - 60 - 60.5[1]							Hz
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	A
Maximum Continuous Output Current @208V	-	16	-	24	-	-	48.5	A
GFDI Threshold	1							A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes							
INPUT								
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	W
Maximum DC Power @208V	-	5100	-	7750	-	-	15500	W
Transformer-less, Ungrounded	Yes							
Maximum Input Voltage	480							Vdc
Nominal DC Input Voltage	380				400			Vdc
Maximum Input Current @240V[2]	8.5	10.5	13.5	16.5	20	27	30.5	Adc
Maximum Input Current @208V[2]	-	9	-	13.5	-	-	27	Adc
Max. Input Short Circuit Current	45							Adc
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	600kΩ Sensitivity							
Maximum Inverter Efficiency	99	99.2						%
CEC Weighted Efficiency	99						99 @ 240V 98.5 @ 208V	%
Nighttime Power Consumption	< 2.5							W
ADDITIONAL FEATURES								
Supported Communication Interfaces	RS485, Ethernet, ZigBee (optional), Cellular (optional)							
Revenue Grade Data, ANSI C12.20	Optional[3]							
Rapid Shutdown - NEC 2014 and 2017 690.12	Automatic Rapid Shutdown upon AC Grid Disconnect							
STANDARD COMPLIANCE								
Safety	UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07							
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (HI)							
Emissions	FCC Part 15 Class B							
INSTALLATION SPECIFICATIONS								
AC Output Conduit Size / AWG Range	1" Maximum / 14-6 AWG					1" Maximum /14-4 AWG		
DC Input Conduit Size / # of Strings / AWG Range	1" Maximum / 1-2 strings / 14-6 AWG					1" Maximum / 1-3 strings / 14-6 AWG		
Dimensions with Safety Switch (HxWxD)	17.7 x 14.6 x 6.8 / 450 x 370 x 174					21.3 x 14.6 x 7.3 / 540 x 370 x 185		in / mm
Weight with Safety Switch	22 / 10		25.1 / 11.4	26.2 / 11.9		38.8 / 17.6		lb / kg
Noise	< 25				<50			dBA
Cooling	Natural Convection							
Operating Temperature Range	-13 to +140 / -25 to +60[4] (-40°F / -40°C option)[5]							°F / °C
Protection Rating	NEMA 4X (Inverter with Safety Switch)							

(1) For other regional settings please contact SolarEdge support
(2) A higher current source may be used; the inverter will limit its input current to the values stated
(3) Revenue grade inverter P/N: SExxxxH-US000NNC2
(4) For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf
(5) -40 version P/N: SExxxxH-US000NNU4

RoHS

RVR ENGINEERING

SYSTEM INFORMATION

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INVERTER SPECSHEET

DESIGNER/CHECKED BY:
PR/RR

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Power Optimizer

For North America

P320 / P340 / P370 / P400 / P405 / P505

POWER OPTIMIZER

PV power optimization at the module-level

- Specifically designed to work with SolarEdge inverters
- Up to 25% more energy
- Superior efficiency (99.5%)
- Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
- Fast installation with a single bolt
- Next generation maintenance with module-level monitoring
- Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- Module-level voltage shutdown for installer and firefighter safety

solaredge.com

solaredge

Power Optimizer

For North America

P320 / P340 / P370 / P400 / P405 / P505

Optimizer model (typical module compatibility)	P320 (for 60-cell modules)	P340 (for high-power 60-cell modules)	P370 (for higher-power 60 and 72-cell modules)	P400 (for 72 & 96-cell modules)	P405 (for thin film modules)	P505 (for higher current modules)	
INPUT							
Rated Input DC Power[1]	320	340	370	400	405	505	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	48		60	80	125[2]	83[2]	Vdc
MPPT Operating Range	8 - 48		8 - 60	8 - 80	12.5 - 105	12.5 - 83	Vdc
Maximum Short Circuit Current (Isc)	11			10.1		14	Adc
Maximum DC Input Current	13.75			12.63		17.5	Adc
Maximum Efficiency	99.5						%
Weighted Efficiency	98.8					98.6	%
Overvoltage Category	II						
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREDGE INVERTER)							
Maximum Output Current	15						Adc
Maximum Output Voltage	60				85		Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREDGE INVERTER OR SOLAREDGE INVERTER OFF)							
Safety Output Voltage per Power Optimizer	1 ± 0.1						Vdc
STANDARD COMPLIANCE							
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3						
Safety	IEC62109-1 (class II safety), UL1741						
RoHS	Yes						
INSTALLATION SPECIFICATIONS							
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 159 x 49.5 / 5.1 x 6.3 x 1.9	129 x 162 x 59 / 5.1 x 6.4 x 2.3	mm / in
Weight (including cables)	630 / 1.4			750 / 1.7	845 / 1.9	1064 / 2.3	gr / lb
Input Connector	MC4[3]						
Output Wire Type / Connector	Double Insulated; MC4						
Output Wire Length	0.9 / 2.95		1.2 / 3.9				m / ft
Input Wire Length	0.16 / 0.52						m / ft
Operating Temperature Range	-40 - +85 / -40 - +185						°C / °F
Protection Rating	IP68 / NEMA6P						
Relative Humidity	0 - 100						%

[1] Rated STC power of the module. Module of up to +5% power tolerance allowed
[2] NEC 2017 requires max input voltage be not more than 80V
[3] For other connector types please contact SolarEdge

PV System Design Using a SolarEdge Inverter[4][5]		Single Phase HD-Wave	Single phase	Three Phase 208V	Three Phase 480V	
Minimum String Length (Power Optimizers)	P320, P340, P370, P400	8		10	18	
	P405 / P505	6		8	14	
Maximum String Length (Power Optimizers)		25		25	50[6]	
Maximum Power per String		5700 (6000 with SE7600-US - SE11400-US)	5250	6000[7]	12750[8]	W
Parallel Strings of Different Lengths or Orientations		Yes				

[4] For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf
[5] It is not allowed to mix P405/P505 with P320/P340/P370/P400 in one string
[6] A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement
[7] For SE14.4KUS/SE43.2KUS: It is allowed to install up to 6,500W per string when 3 strings are connected to the inverter (3 strings per unit for SE43.2KUS) and when the maximum power difference between the strings is up to 1,000W
[8] For SE30KUS/SE33.3KUS/SE66.6KUS/SE100KUS: It is allowed to install up to 15,000W per string when 3 strings are connected to the inverter (3 strings per unit for SE66.6KUS/SE100KUS) and when the maximum power difference between the strings is up to 2,000W

CE RoHS

RVR ENGINEERING

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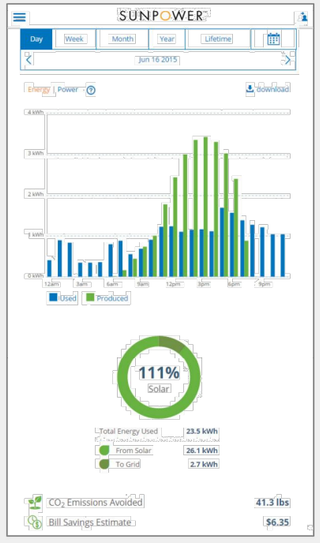
SunPower Monitoring System for Your Home

Mobile Device Apps

Keep track of your solar system performance anytime, anywhere with a free app for your iPhone®, iPad®, or Android™ mobile device.



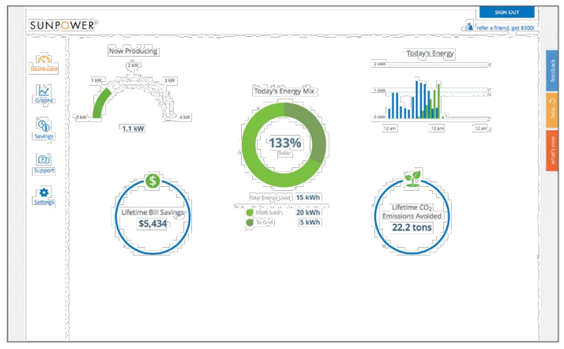
From Our Customers

"The monitoring system is a great way to see how much electricity our solar panels produce and enables us to optimize our energy savings."

"A great app for monitoring your use and production of kWh with excellent graphic support!"

See Your Energy Information

The SunPower Monitoring System provides detailed visibility into how much energy your system produces each day, month, or year—enabling you to optimize your solar investment.



https://monitor.us.sunpower.com

Bill Savings Estimate

The SunPower consumption monitoring kit* provides an estimate of savings achieved by using your solar system. The savings are calculated based on the solar energy produced by your system and the energy used by your household.

Environmental Savings

The environmental savings feature provides an estimate of reduced emissions achieved by using your solar system.

*A consumption monitoring kit (installed by your dealer or builder) allows you to monitor your home energy usage and provides additional monitoring features, including Energy Mix and Bill Savings. Ask your dealer or builder for additional details regarding the consumption monitoring kit.

Document #507282 Rev G

SUNPOWER®

RVR ENGINEERING

SYSTEM INFORMATION

DC SYSTEM SIZE: 16800W
AC SYSTEM SIZE: 16000W
MODULES:
(42)HANWHA Q CELLS Q.PRO L-G5.3 400W
INVERTER:
(1)SOLAREDGE TECHNOLOGIES SE10000H-US(240V)
(1)SOLAREDGE TECHNOLOGIES SE6000H-US(240V)
OPTIMIZER:
(42) P400 SOLAREDGE POWER OPTIMIZER

ENGINEER OF RECORD

.

SAVKAT

1730 NEW BRITAIN AVE, FARMINGTON CT 06032
TEL NO : 860-288-7557
LIC :#HIC@0648178
ELECTRICIAN INFORMATION:
MICHAEL JOSEPH
0188969.E1

CUSTOMER INFORMATION

NAME&ADDRESS:

KAREN WEINSEISS
81 TRANQUILITY DR, EASTON, CT 06612

41°17'08.2"N 73°18'58.4"W
APN:EASTM:3781B:54L:11

AHJ:CT-TOWN OF EASTON

PROJECT NUMBER:SAVK-000802

MONITORING SPECSHEET

DESIGNER/CHECKED BY:
PR/RR

SCALE:AS NOTED	PAPER SIZE:17"x11"	
DATE:10/09/2020	REV:A	PV-6.3