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## SYSTEM INFORMATION

DC SYSTEM SIZE: 21600W AC SYSTEM SIZE: 18900W MODULES: (60)SUNPOWER SPR-X22-360-E-AC ENPHASE IQ7XS-96-2-US(240V,1PH) BRANCH DETAILS: (6)BRANCH OF 10 AC MODULES.

## **ENGINEER OF RECORD**



36 TRIANO DRIVE, UNIT C SOUTHINGTON, CT 06489 TEL NO : 860-288-7557 LIC :#HIC@0648178 **ELECTRICIAN INFORMATION**: MICHAEL JOSEPH 0188969.E1

**CUSTOMER INFORMATION** 

NAME&ADDRESS: MATTHEW HEALY 40 BRADLEY RD, WESTON, CT 06883. 41°14'39.87"N 73°20'22.32"W APN:248-4921

AHJ:CT-TOWN OF EASTON

APN:248-4921

PROJECT NUMBER:SAVK-003608

## SITE PLAN -2

DESIGNER/CHECKED BY:

MR/LS

SCALE:AS NOTED

PAPER SIZE:17"x11"

DATE:10/15/21



## **GENERAL NOTES**

#### **GENERAL NOTES**

- MODULES ARE LISTED UNDER UL 1703 AND CONFORM TO THE STANDARDS.
- INVERTERS ARE LISTED UNDER UL 1741 AND CONFORM TO THE STANDARDS. 2.
- DRAWINGS ARE DIAGRAMMATIC, INDICATING GENERAL ARRANGEMENT OF THE PV SYSTEM AND THE ACTUAL 3. SITE CONDITION MIGHT VARY.
- WORKING CLEARANCES AROUND THE NEW PV ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH NEC 110.26.
- ALL GROUND WIRING CONNECTED TO THE MAIN SERVICE GROUNDING IN MAIN SERVICE PANEL/ SERVICE 5. EQUIPMENT.
- ALL CONDUCTORS SHALL BE 600V, 75°C STANDARD COPPER UNLESS OTHERWISE NOTED. 6.
- THE SYSTEM WILL NOT BE INTERCONNECTED BY THE CONTRACTOR UNTIL APPROVAL FROM THE LOCAL 7. 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 AND 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 EOUIPMENT SHALL BE INSTALLED ACCESSIBLE TO OUALIFIED 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 CODE.
- 17. DC WIRING LIMITED TO MODULE FOOTPRINT. MICRO INVERTER WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY WITH SUITABLE WIRING CLIPS.
- AC CONDUCTORS COLORED OR MARKED AS FOLLOWS: PHASE A OR L1- BLACK PHASE B OR L2- RED, OR 18. 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.
- 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
- RAPID SHUTDOWN OF ENERGIZED CONDUCTORS BEYOND 10 FT OF PV ARRAY OR 5 FT INSIDE A BUILDING 38. 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.





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PROJECT NUMBER: SAVK-003608

## **GENERAL NOTES**

DESIGNER/CHECKED BY:

MR/LS

SCALE: AS NOTED

DATE:10/15/21

PAPER SIZE:17"x11"

REV:A

PV-2.0

## SINGLE LINE DIAGRAM: DC SYSTEM SIZE - 21600W, AC SYSTEM SIZE -18900W



-1)	<u>SYSTEM</u>		<b>/R</b> EERING
1)	DC SYSTEM SIZE AC SYSTEM SIZE MODULES: (60)SUNPOWER S ENPHASE IQ7XS- BRANCH DETAILS (6)BRANCH OF 10	: 21600W : 18900W SPR-X22-360-E-A 96-2-US(240V,1f 5: 0 AC MODULES.	AC PH)
<del>1</del> )	ENGINE		CORD
l.			
ABLE BACKFEED			
OTECTION= DUS LOAD(1.25)X	SA	VK	AT
(60=98.25 A =>PV	36 TRIANO DRIVE SOUTHINGTON, TEL NO : 860 LIC :#HI ELECTRICIAN J MICHAEL JOSEPI 0188969.E1	E, UNIT C CT 06489 0-288-7557 IC@0648178 I <b>NFORMATIO</b> H	N:
E DROP SHALL BE NO	<b>CUSTOM</b>	ER INFOR	RMATION
NFORMS TO NEC 240.6 DE CONDUCTOR SIZED	NAME&ADDRESS: MATTHEW HEALY 40 BRADLEY RD, WESTON, CT 06883. 41°14'39.87"N 73°20'22.32"W APN:248-4921		
ORRECTION FACTOR IS	AHJ:CT-TOWN OF EASTON APN:248-4921		
DJUSTMENT FACTOR IS	PROJECT NUMBER:SAVK-003608		
DRRECTION IS PER NEC E SIZED PER WIRE	SINGLE LINE DIAGRAM		
O SUNLIGHT SHALL BE NT PER NEC 310.10(D).	DESIGNER/CHECKE MR/LS	D BY:	
TO WET LOCATIONS	SCALE:AS NOTED	PAPER SI	ZE:17"x11"
E IN WET LOCATIONS	DATE:10/15/21	REV:A	PV-3.0

## WARNING PLACARDS

## WARNING

**ELECTRIC SHOCK HAZARD** 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** 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

ABEL 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)]

## WARNING

AC MICRO INVERTERS LOCATED ON ROOF UNDER MODULES

ABEL LOCATION DC DISCONNECT, INVERTER [PER CODE: NEC 690.41)] [To be used when inverter is ungrounded] PHOTOVOLTAIC SYSTEM AC DISCONNECT SWITCH

RATED AC OPERATING CURRENT **78.6** AMPS AC AC NOMINAL OPERATING VOLTAGE 240 VAC

## LABEL LOCATION

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

## WARNING

**NVERTER 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 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 EQUIPPED WITH RAPID SHUTDOWN

OLAR ELECTRI

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))

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



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









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PAPER SIZE:17"x11"

DATE:10/15/21

REV:A

PV-4.0

# X SERIES



**Fundamentally Different.** 

The SunPower® Maxeon® Solar Cell

Patented solid metal foundation

prevents breakage and corrosi

Factory-integrated Microinverter

Simpler, faster installation

rapid shutdown

Integrated wire management,

Engineered and calibrated by

SunPower for SunPower modules

Enables highest-efficiency

modules available <sup>2</sup>

Unmatched reliability <sup>3</sup>

And Better.

# SUNPOWER<sup>®</sup>

## SunPower<sup>®</sup> X-Series: X22-370 | X22-360

# SunPower<sup>®</sup> Residential AC Module

Built specifically for use with the SunPower Equinox<sup>™</sup> system, the only fully integrated solution designed, engineered, and warranted by one manufacturer.

#### Maximum Power. Minimalist Design.

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Industry-leading efficiency means more power and savings per available space. With fewer modules required and hidden microinverters, less is truly more.

#### Highest Lifetime Energy and Savings.

Designed to deliver 60% more energy over 25 years in real-world conditions like partial shade and high temperatures.<sup>1</sup>



#### Best Reliability. Best Warranty.

With more than 25 million modules deployed around the world, SunPower technology is proven to last. That's why we stand behind our module and microinverter with the industry's best 25-year Combined Power and Product Warranty, including the highest Power Warranty in solar.



#### X-Series: X22-370 | X22-360 SunPower® Residential AC Module

	AC Electrical Data
Inverter Model: Type E (IQ 7XS)	@240 VAC
Peak Output Power	320 VA
Max. Continuous Output Power	315 VA
Nom. (L–L) Voltage/Range <sup>2</sup> (V)	240 / 211-264
Max. Continuous Output Current (A)	1.31
Max. Units per 20 A (LL) Branch Circuit <sup>3</sup>	12 (single phase)
CEC Weighted Efficiency	97.5%
Nom. Frequency	60 Hz
Extended Frequency Range	47–68 Hz
AC Short Circuit Fault Current Over 3 Cycles	5.8 A rms
Overvoltage Class AC Port	III
AC Port Backfeed Current	18 mA
Power Factor Setting	1.0
Power Factor (adjustable)	0.7 lead. / 0.7 lag.

No active phase balancing for three-phase installation

	DC Power Data	
	SPR-X22-370-E-AC	SPR-X22-360-E-AC
Nominal Power 5 (Pnom)	370 W	360 W
Power Tolerance	+5/-0%	+5/-0%
Module Efficiency <sup>5</sup>	22.7%	22.1%
Temp. Coef. (Power)	-0.29%/°C	-0.29%/°C
Shade Tolerance	Three bypass diodes     Integrated module-level maximum     power point tracking	

	ested operating conditions
Operating Temp.	-40°F to +185°F (-40°C to +85°C)
Max. Ambient Temp.	122°F (50°C)
Max. Test Load <sup>7</sup>	Wind: 154 psf, 7400 Pa, 754 kg/m² back Snow: 208 psf, 10000 Pa, 1019 kg/m² front
Design Load	Wind: 62 psf, 3000 Pa, 305 kg/m² back Snow: 125 psf, 6000 Pa, 611 kg/m² front
Impact Resistance	1 inch (25 mm) diameter hail at 52 mph (23 m/s)
	the second second methods.
	Mechanical Data
Color Collo	OC Managemetalling Mayson Con III

Front Glass	High-transmission tempered glass with anti-reflective coating
Environmental Rating	Module: Outdoor rated Inverter: NEMA Type 6 Class II
Frame	Class 1 black anodized (highest AAMA rating)
Weight	42.9 lb (19.5 kg)
Recommended Max. Module Spacing	1.3 in. (33 mm)

SunPower 360 W compared to a conventional module on same-sized arrays (260 W, 16% efficient, approx. 1.6 m<sup>2</sup>) 4% more energy per watt(based on third-party module characterization and PVSim), 0.75%/yrslower degradation(Campeau, Z, et al., SunPower Module Degradation Rate, \* SunPower white paper, 2013). 2 Based on search of datasheet values from websites of top 10 manufacturers per IrKs, as of January 2017, 3 #1 rankin \*Fraunhofer PVDurability Initiative for Solar Modules Pari3, "PTVech Power Magazine, 2015. Campeau, Z, et al., "SunPower Module Degradation Rate," SunPower white paper, 2013. 4 Factory setto 1547a-2014 default settings, CA Rule 21 default settings profile set during commissioning. 5 Standard \*Est Conditions (1000/Wrii Pradiance, M. 15, 25°C). NRE, calibration standard: SOMS current, LACCS FF and voltage, All DC voltage is fully contained within the module. 6 This product to UL listed as PWRE and conforms with NEC 2017 690.12; and C221-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors; when Installed according to manufacturer's instructions.

7 Please read the safety and installation instructions for more information regarding load ratings and

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sunpower.com

	Warranties, Certifications, and Co
Warranties	<ul> <li>25-year limited power warranty</li> <li>25-year limited product warranty</li> </ul>
Certifications and Compliance	UL 1703     UL 1741 / IEEE-1547     UL 1741 / IEEE-1547     UL 1741 AC Module (Type 2 fire rated)     UL 62109-1 / IEC 62109-2     FCC Part 15 Class B     ICES-0003 Class B     CAN/CSA-C22.2 NO. 107.1-01     CA Rule 21 (UL 1741 SA) <sup>4</sup> (includes Volt/Var and Reactive Power P     UL Listed PV Rapid Shutdown Equipmer
	Enables installation in accordance with: • NEC 690.6 (AC module) • NEC 690.12 Rapid Shutdown (inside anc • NEC 690.15 AC Connectors, 690.33(A)–(I
	When used with InvisiMount racking and Inv (UL 2703): • Module grounding and bonding through • Class A fire rated When used with AC module Q Cables and ar UL 2238) <sup>+</sup> : • Rated for load break disconnect
PID Test	Potential-induced degradation free
	1868 mm (61.3 in.)
437 mm (17,2 in	

AC MODULE SERIES APPEAR INTERVIEW INTERACTIVE PV RAPID SHITDOWNH LISTED E478330 Module Fire Performance: Type 2 Please read the Safety and Installation Instructions for details.



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**RVR** ENGINEERING

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PV-5.0

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visiMount accessories

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ccessories (UL 6703 and







## 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!"

\*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 reserving the consumition monitoring kit

#### Document #507282 Rev

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#### 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.

# SUNPOWER





**RVR** 

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