NEW PHOTOVOLTAIC SYSTEM 21.04 KW DC

2723 D'ABADIE ST, NEW ORLEANS, LA 70119

PROJECT INFORMATION

(61) MISSION SOLAR 345W PV MODULES
(02) SOL - ARK 12K-P INVERTER
(02) STORZ POWER 10.24 KWH STORAGE BATTERY
SYSTEM SIZE (STC): 21.04 KW DC
ROOF TYPE: SHINGLE
ATTACHMENT TYPE: ROOF TECH MINI

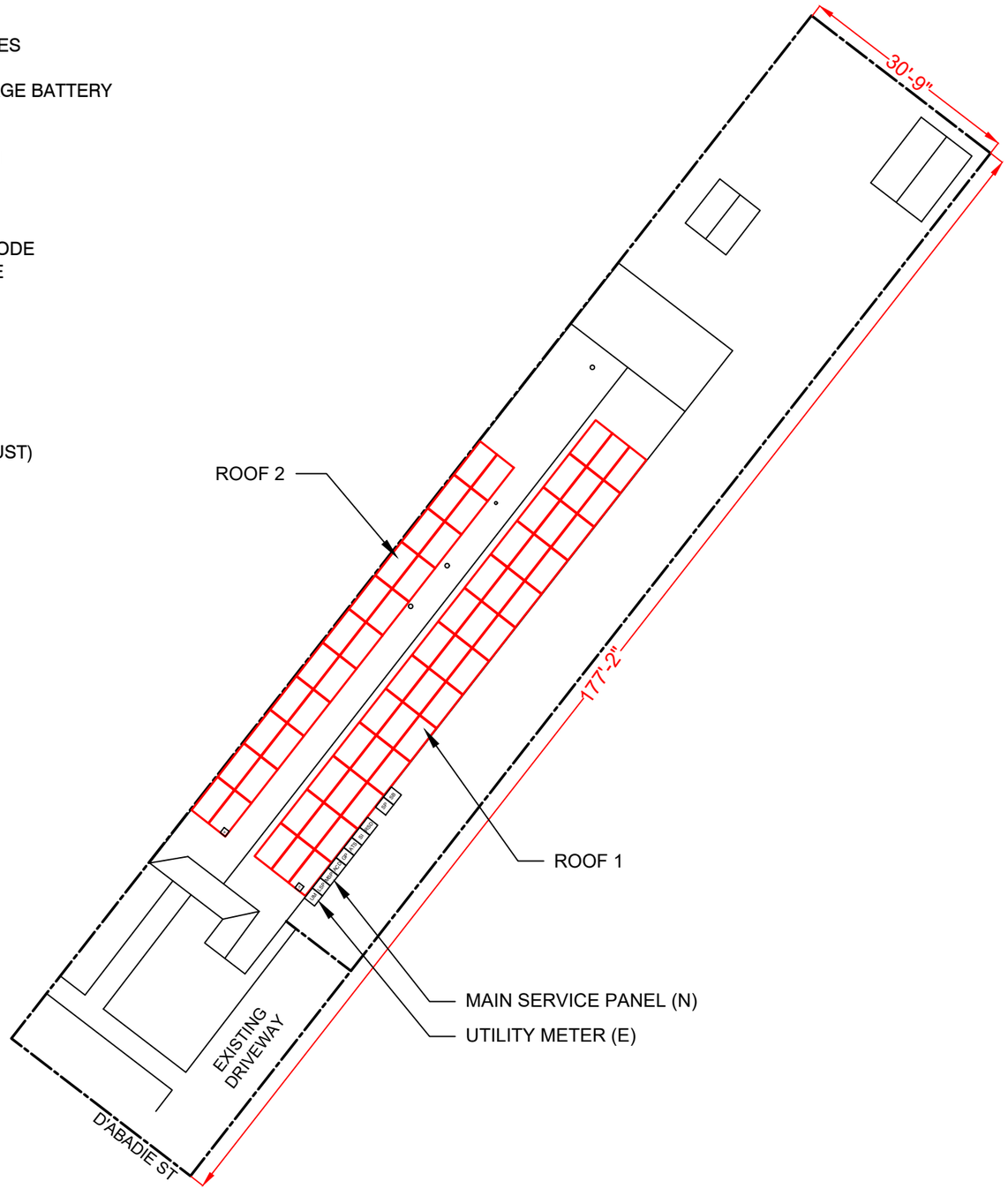
APPLICABLE CODES

JURISDICTION: ORLEANS PARISH
2015 INTERNATIONAL RESIDENTIAL CODE
2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL FIRE CODE
2014 NATIONAL ELECTRIC CODE

DESIGN SPECIFICATIONS

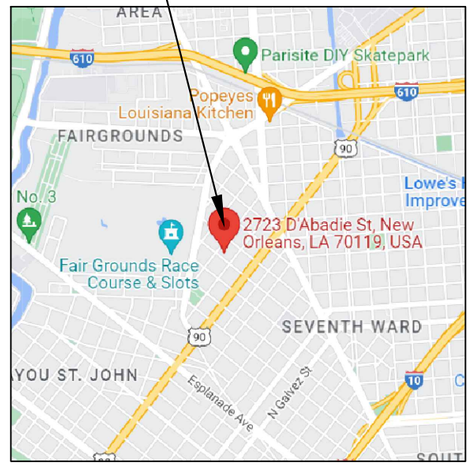
OCCUPANCY RISK: II
ZONING TYPE: RESIDENTIAL
WIND EXPOSURE CATEGORY: C
WIND SPEED: 143 MPH (3 SECOND GUST)
SNOW LOAD: 0 PSF

SHEET INDEX

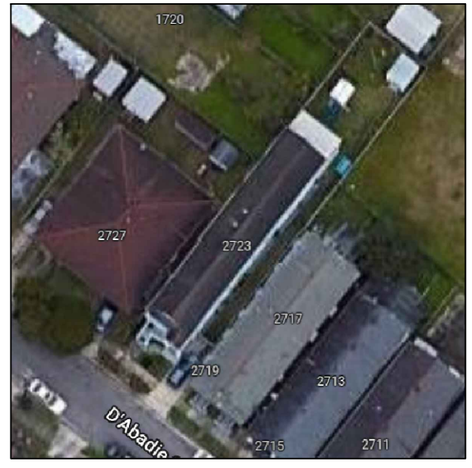


SCALE: N.T.S

PROJECT LOCATION



VICINITY MAP N.T.S.



AERIAL MAP N.T.S.

NOTE:

THESE DRAWINGS ARE FOR PERMIT USE ONLY. DIMENSIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR BEFORE INSTALLATION.

DESIGNED FOR
ENVISHA ENERGY

PROJECT NAME & ADDRESS
CANDICE SIRMON
2723 D'ABADIE ST
NEW ORLEANS, LA 70119

ENGINEER'S SIGNATURE & SEAL

PRINCIPAL Engineering

SDVOSB

STATE OF LOUISIANA
Henry I. DiFranco, Jr.
Reg. No. 27448
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

07/12/2022

Louisiana Firm No. EF-003168
Principal Engineering, Inc.

REVISIONS		
REV	DESCRIPTION	DATE

DATE	06/30/2022
DRAWN BY	HY CONSULTING, LLC

TITLE SHEET

SHEET IDENTIFICATION
PV-1

PROJECT NOTES:

THIS PROJECT SHALL COMPLY WITH ALL APPLICABLE LOCAL ORDINANCES
ALL WORK SHALL COMPLY WITH RESPECTIVE NEC, IRC, IBC AND IFC MUNICIPAL CODES, AND ALL MANUFACTURERS' RECOMMENDATIONS AND SPECIFICATIONS.
PROPER ACCESS AND WORKING CLEARANCE WILL BE PROVIDED AT PROJECT SITE
A LADDER SHALL BE IN PLACE FOR THE INSPECTION TO COMPLY WITH OSHA REGULATIONS
THE SOLAR PV INSTALLATION WILL NOT OBSTRUCT ANY ROOF VENTS (PLUMBING, MECHANICAL, OR BUILDING, ETC).
ALL EQUIPMENT SHALL BE INSTALLED WITHIN AN ACCESSIBLE AREA FOR QUALIFIED PERSONNEL.
ALL APPLICABLE EQUIPMENT IS TO BE UL LISTED.
ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.
ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS REQUIRED BY NEC AND ANY OTHER APPLICABLE CODES.
ANY WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURES.
IF NECESSARY, ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT WITHIN SIGHT OF THE AC DISCONNECT.
RACKING SYSTEM & PV ARRAY WILL BE INSTALLED ACCORDING TO CODE-COMPLIANT INSTALLATION MANUAL AND WILL FOLLOW MANUFACTURERS' RECOMMENDATIONS AND SPECIFICATIONS.
WHEN POSSIBLE, ALL PV RELATED RACKING ATTACHMENTS WILL BE STAGGERED AMONGST THE ROOF FRAMING MEMBERS.
MODULES WILL BE FLUSH MOUNTED AND NOT EXCEED A MXIMUM OF 6” PARALLEL FROM THE ROOF PLANE
ALL ROOF PENETRATIONS WILL BE SEALED WITH APPROVED ROOF SEALANT BY A LICENSED CONTRACTOR.

PROJECT NOTES CONTINUED:

ALL PV RELATED ROOF ATTACHMENTS ARE TO BE SPACED NO GREATER THAN THE SPAN DISTANCE SPECIFIED BY THE RACKING MANUFACTURER.
ANY CONDUIT EXPOSED TO SUNLIGHT ON ROOF SHALL BE LOCATED NO LESS THAN 7/8" ABOVE ROOF SURFACE.
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.
CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7.
VOLTAGE DROP LIMITED TO 1.5%.
DC WIRING LIMITED TO MODULE FOOTPRINT.
MICROINVERTER WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY WITH SUITABLE WIRING CLIPS.
PHOTOVOLTAIC SYSTEM INVERTER IS UNGROUNDED. NO CONDUCTORS ARE SOLIDLY GROUNDED IN THE INVERTER, AND SYSTEM COMPLIES WITH NEC ARTICLE 690.
AC DISCONNECT(S) ARE VISIBLE, LOCKABLE AND ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL.
LOCAL UTILITY PROVIDER SHALL BE NOTIFIED PRIOR TO USE AND THE SYSTEM WILL NOT BE INTERCONNECTED UNTIL APPROVAL FROM THE LOCAL JURISDICTION AND THE UTILITY IS OBTAINED.
A PV METER WILL BE INSTALLED IF REQUIRED BY AUTHORITY HAVING JURISDICTION
ALL ELECTRICAL EQUIPMENT WILL BE PROPERLY LABELED WITH NECESSARY PLACARDS AS PER NEC 690

ABBREVIATIONS:

AC	ALTERNATING CURRENT
ACD	ALTERNATING CURRENT DISCONNECT
APPR	APPROXIMATE
CB	COMBINER BOX
DC	DIRECT CURRENT
DCD	DIRECT CURRENT DISCONNECT
E	EXISTING
JB	JUNCTION BOX
MIN	MINIMUM
MISC	MISCELLANEOUS
MSP	MAIN SERVICE PANEL
N	NEW
PV	PHOTOVOLTAIC
PVM	PHOTOVOLTAIC METER
SB	STORAGE BATTERY
SI	STRING INVERTER
SQFT	SQUARE FOOT
STC	STANDARD TEST CONDITIONS
TYP	TYPICAL
UM	UTILITY METER

DESIGNED FOR
ENVISHA ENERGY

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07/12/2022
Louisiana Firm No. EF-003168
Principal Engineering, Inc.

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PROJECT NOTES

SHEET IDENTIFICATION
PV-2

GENERAL NOTES:

1. VISIBLE, LOCKABLE, AND LABELED AC DISCONNECT IS LOCATED WITHIN 10 FEET OF THE UTILITY METER.

2. NO ENCROACHMENT INTO EASEMENTS BY NEW SCOPE OF WORK (SOLAR MODULES, RACK/RAIL SYSTEMS, AND EQUIPMENT).

3. RAFTER LOCATIONS ARE APPROXIMATE AND MAY NOT DEPICT EXACT LOCATIONS. THEREFORE, ROOF ATTACHMENTS ARE SUBJECT TO CHANGE DURING INSTALLATION, BUT WILL NOT EXCEED MAXIMUM ROOF ATTACHMENT SPACING PROVIDED BY THE ENGINEER.

4. ROOF ATTACHMENTS ARE TO BE STAGGERED SO THAT NO ONE ATTACHMENT FALLS ON THE SAME STRUCTURAL MEMBER WITH THE EXCEPTION OF THE FIRST AND FINAL STRUCTURAL MEMBER HAVING TWO ROOF ATTACHMENTS.

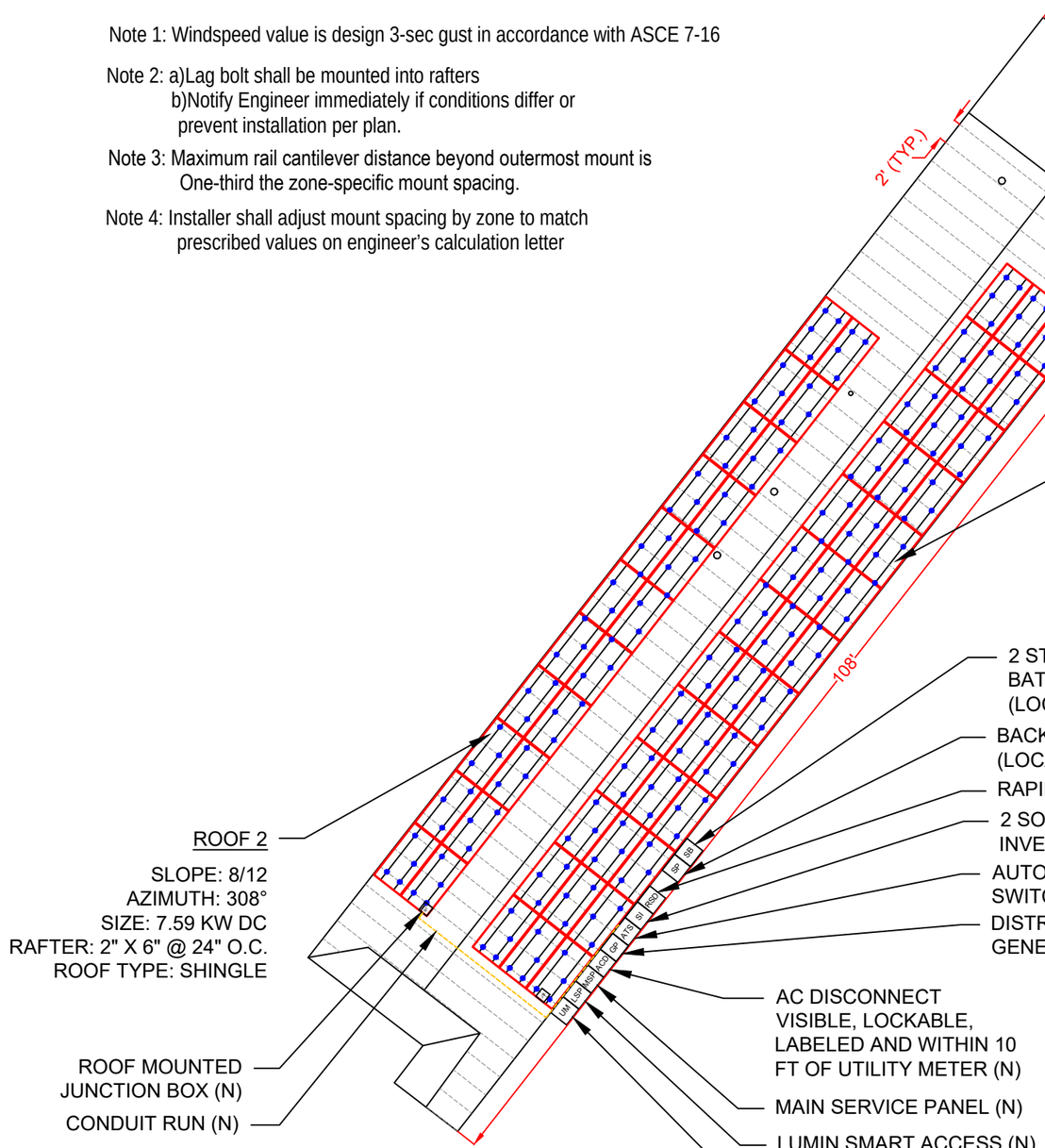
5. FOR METAL ROOF INSTALLATIONS, ROOF ATTACHMENTS ARE TO BE MOUNTED TO THE SEAM OF THE METAL AND SHOULD STILL FOLLOW A STAGGERED PATTERN UNLESS SPECIFIED OTHERWISE BY THE ENGINEER.

Note 1: Windspeed value is design 3-sec gust in accordance with ASCE 7-16

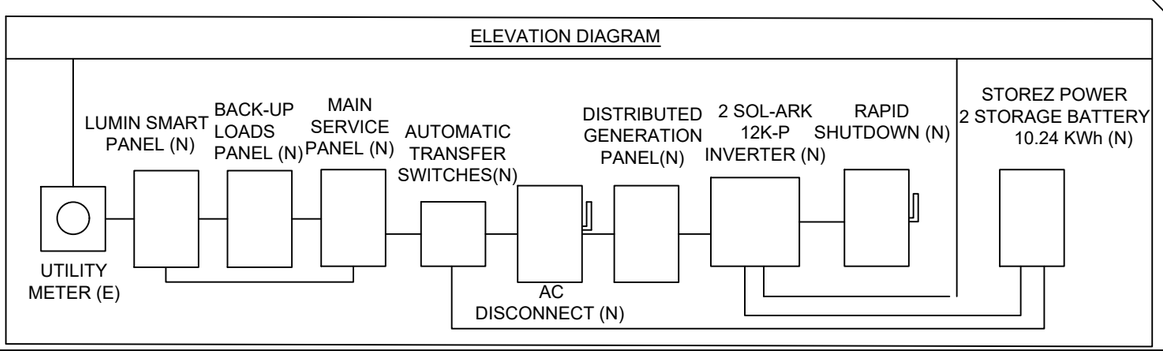
Note 2: a)Lag bolt shall be mounted into rafters
b)Notify Engineer immediately if conditions differ or prevent installation per plan.

Note 3: Maximum rail cantilever distance beyond outermost mount is One-third the zone-specific mount spacing.

Note 4: Installer shall adjust mount spacing by zone to match prescribed values on engineer's calculation letter



ELEVATION DIAGRAM



SCALE: N.T.S

LEGEND

- ROOF ATTACHMENT
- CONDUIT
- RAIL
- STRUCTURAL MEMBER OR METAL SEAM
- FIRE SETBACK
- OBSTRUCTION

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ROOF LAYOUT

SHEET IDENTIFICATION

PV-3

Candice Sirmon
24KWDC 18KWAC
(3) Branch circuits of 8 modules
(3) Branch circuits of 9 modules
(1) Branch circuit of 10 modules
Inverter output current: 75A

PV Module: (61) Mission 345
Inverter: (1) Sol-Ark 12k (240v)
Battery: (2) Storz Power 5.12kWh (48VDC)

3-Solar Array strings of 9 modules
PV Cable #10 PV USE-2 1blk1red 420V DC
Roof Mounted Junction Box (Soladeck model 0786-3R5)
#10 THWN-2 1blk1red1gr 420V DC EMT/FMC
3 strings of 9 TIGO Optimizers TS4-A-O (located under each panel)
#10 THWN-2, 1blk1red1gr, 467V DC EMT/FMC
#6 THWN green through out system
Solar Array strings of 10 modules
PV Cable #10 PV USE-2 1blk1red 467V DC
10 TIGO Optimizers TS4-A-O (located under each panel)
Rapid Shutdown Using built in control pins
Parallel Comms
Master 01 Sol-Ark 12k Inverter
Slave 02 Sol-Ark 12k Inverter
Battery
CAN/Bus
Grid 63A
Gen 50A
Load 63A
MPPT 1
MPPT 2
N
#10 THWN-2 1blk1red1gr 373V DC EMT/FMC
Roof Mounted Junction Box (Soladeck model 0786-3R5)
PV Cable #10 PV USE-2 1blk1red 373V DC
3-Solar Array strings of 8 modules
3 strings of 8 TIGO Optimizers TS4-A-O (located under each panel)
Storz Power
2 Batteries 10.24 kWh
48V DC
+
-
Battery Temp Sensor
Battery Comm Cable (Optional)
#2/0 THWN 48V DC EMT/FMC
#6 THWN 240V AC Sch 80 PVC
Bi-Directional Utility Meter 1-Phase 240v
Service Side Tap
#6 THWN 240V AC Sch 80 PVC
Consumption CT's x2 for each phase
Polaris Blocks from both inverter loads
Load control device with pre made whips to tie into existing panel to control circuits to be load shedded in an outage situation
125A CB
200A CB
60A CB
60A CB
NEW Main Service Panel, Meter, & Overhead
125A Fuses
Lumin Smart Panel Smart Access Panel
Backup Panel 125 amp rated 125 amp main breaker 240v
#1/0 THWN 240V AC Sch 80 PVC
Main Service Panel NEW 225 amp rated 200 amp main breaker 240v
#1/0 THWN 240V AC Sch 80 PVC
AC Disconnect 200A Lockable and Fusible
#1/0 THWN 240V AC Sch 80 PVC
Distributed Generation Panel 125 amp rated 240v

ADDRESS: 2723 D'Abadie St. New Orleans, LA
DESC.: 24 **kW solar panel system**
UTILITY: Entergy
JURISDICTION: Orleans
DATE: 7.5.22 | REV: 1 | SHEET: 1 OF 1
Layout Designer: .....
One-Line Designer:

DESIGNED FOR
ENVISHA ENERGY

PROJECT NAME & ADDRESS
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2723 D'ABADIE ST
NEW ORLEANS, LA 70119

ENGINEER'S SIGNATURE & SEAL
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ELECTRICAL DIAGRAM

SHEET IDENTIFICATION
PV-4

1 COMBINER BOXES/ENCLOSURES/PULL BOXES

⚠ WARNING
ELECTRICAL SHOCK HAZARD
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

NEC 690.13(B) & 706.15(C)(4)

⚠ WARNING
TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

NEC 110.27(C)

2 DC DICSONNECT/BREAKER

⚠ WARNING
ELECTRICAL SHOCK HAZARD
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION
DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT

NEC 690.13(B)

PHOTOVOLTAIC
AC DISCONNECT

NEC 690.13(B)

RATED AC OPERATING CURRENT	
MAX RATED AC OPERATING CURRENT	
RATED AC OPERATING VOLTAGE	
MAX RATED AC OPERATING VOLTAGE	
RATED SHORT CIRCUIT CURRENT	
MAXIMUM SYSTEM VOLTAGE	

BATTERY BACKUP SYSTEMS

MAXIMUM DC VOLTAGE
OF PV SYSTEM

NEC 690.53

3 EMT/CONDUITS

SOLAR PV DC CIRCUIT

NEC 690.31(O)(2)

PHOTOVOLTAIC POWER SOURCE

NEC 690.31(D)(2)

4 INVERTER

⚠ WARNING
THE DISCONNECTION OF THE GROUNDED CONDUCTOR(S) MAY RESULT IN OVERVOLTAGE ON THE EQUIPMENT

NEC 690.31(E)

PHOTOVOLTAIC AC DISCONNECT
RATED AC OUTPUT CURRENT:
NOMINAL OPERATING AC VOLTAGE:

NEC 690.54

5 PRODUCTION METER/BI-DIRECTIONAL NET METER

⚠ WARNING DUAL POWER SOURCE
SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

NEC 705.12(D)(3) & NEC 690.59

6 AC DISCONNECT/BREAKER/POINTS OF CONNECTION

PHOTOVOLTAIC
AC DISCONNECT

NEC 690.13(B)

⚠ WARNING
THIS EQUIPMENT FED BY MULTIPLE SOURCES:
TOTAL RATING OF ALL OVERCURRENT DEVICES EXCLUDING MAIN POWER SUPPLY SHALL NOT EXCEED AMPACITY OF BUSBAR

NEC 710.15(C) & 692.9(C)

⚠ WARNING
ELECTRICAL SHOCK HAZARD
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

NEC 690.13(B) & 706.15(C)(4)

7 MAIN SERVICE DISCONNECT/UTILITY METER

⚠ WARNING
ELECTRICAL SHOCK HAZARD
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

NEC 690.13(B) & 706.15(C)(4)

⚠ WARNING
TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

NEC 110.27(C)

DO NOT DISCONNECT UNDER LOAD

NEC 690.15(C) & NEC 690.33(E)(2)

⚠ CAUTION
PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFED

NEC 705.12(D) & NEC 690.59

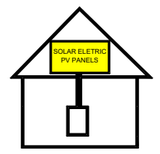
⚠ WARNING
POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE.

NEC 705.12(B)(3)(2)

8 RAPID SHUTDOWN

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

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



RAPID SHUTDOWN FOR SOLAR PV SYSTEM

NEC 690.56(C)(2)

9 ENERGY STORAGE

NOMINAL ESS AC VOLTAGE	
NOMINAL ESS DC VOLTAGE	
AVAILABLE FAULT CURRENT DERIVED FROM THE ESS	
DATE CALCULATION PERFORMED	

NEC 705.15(C)(4)

⚠ WARNING
FUEL CELL POWER SYSTEM CONTAINS ENERGY STORAGE DEVICES

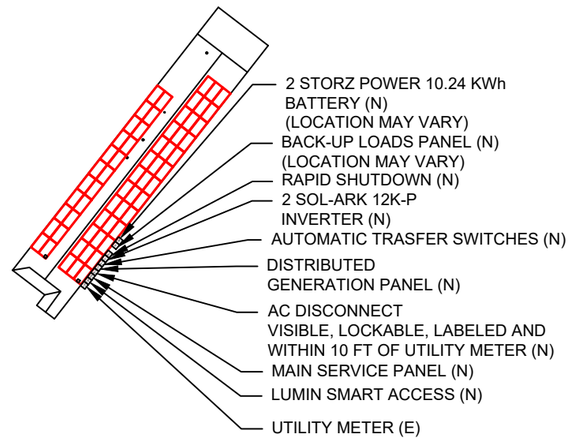
NEC 705.12(B)(3)(2)

ENERGY STORAGE SYSTEM DISCONNECT

NEC 706.15(C)

10 BUILDING/STRUCTURE

⚠ CAUTION
MULTIPLE SOURCES OF POWER



NEC 705.10 & NEC 690.56 (A)(B)

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SAFETY LABELS

SHEET IDENTIFICATION
PV-5

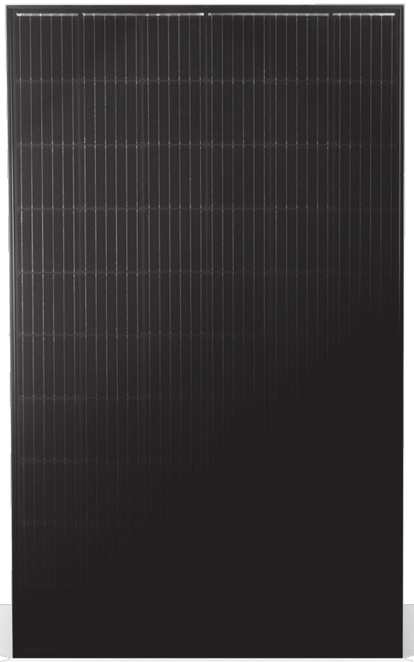
MSE PERC 60

MISSION SOLAR ENERGY

345W

Positive Power Tolerance

Class leading power output **-0 to +3%**



True American Quality
True American Brand

Mission Solar Energy is headquartered in San Antonio, Texas where we manufacture our modules. We produce American, high-quality solar modules ensuring the highest-in-class power output and best-in-class reliability. Our product line is tailored for residential, commercial and utility applications. Every Mission Solar Energy solar module is certified and surpasses industry standard regulations, proving excellent performance over the long term.

Demand the best. Demand Mission Solar Energy.

Certified Reliability
- Tested to UL 61730 & IEC Standards
- PID resistant
- Resistance to salt mist corrosion

Advanced Technology
- 6 Busbar
- Passivated Emitter Rear Contact
- Ideal for all applications

Extreme Weather Resilience
- Up to 5,600 Pa front load & 5,631 Pa back load
- Tested load to UL 61730
- 40 mm frame

BAA Compliant for Government Projects
- Buy American Act
- American Recovery & Reinvestment Act

MODULES ASSEMBLED DESIGNED & ENGINEERED IN THE USA OF U.S. AND NON-U.S. PARTS

FRAME-TO-FRAME 25 YEAR WARRANTY

FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 2% in year one and 0.58% annually from years two to 30 with 84.08% capacity guaranteed in year 25.
For more information, visit www.missionsolar.com/warranty

CERTIFICATIONS

CEC · TÜV SUD · c UL us LISTED

UL 61730 / IEC 61215 / IEC 61730 / IEC 61701

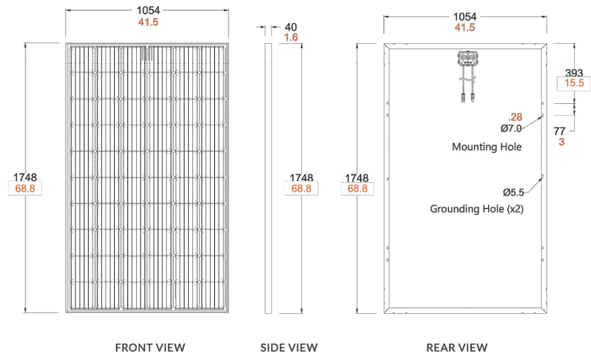
If you have questions or concerns about certification of our products in your area, please contact Mission Solar Energy.

Class Leading
340-350W

MSE PERC 60

BASIC DIMENSIONS

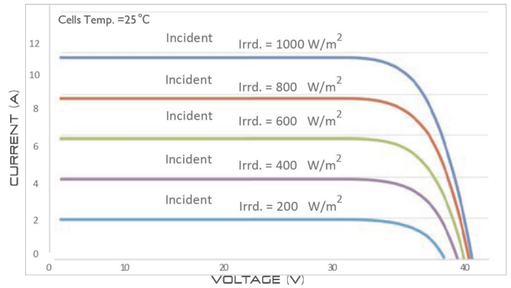
[UNITS: MM/IN]



CURRENT-VOLTAGE CURVE

MSE345SX5T: 345WP, 60 CELL SOLAR MODULE

Current-voltage characteristics with dependence on irradiance and module temperature



CERTIFICATIONS AND TESTS

IEC	61215, 61730, 61701
UL	61730

TÜV SUD · CEC · c UL us LISTED

ELECTRICAL SPECIFICATION

PRODUCT TYPE			MSExxxSX5T (xxx = P_{max})		
Power Output	P_{max}	W_p	340	345	350
Module Efficiency		%	18.5	18.7	19.0
Tolerance		%	0/+3	0/+3	0/+3
Short Circuit Current	I_{sc}	V	10.86	10.92	10.97
Open Circuit Voltage	V_{oc}	A	40.82	41.00	41.18
Rated Current	I_{mp}	V	10.24	10.34	10.44
Rated Voltage	V_{mp}	V	33.20	33.37	33.52
Fuse Rating		A	20	20	20
System Voltage		V	1,000	1,000	1,000

TEMPERATURE COEFFICIENTS

Normal Operating Cell Temperature (NOCT)	44.43°C (±3.7%)
Temperature Coefficient of Pmax	-0.361%/°C
Temperature Coefficient of Voc	-0.262%/°C
Temperature Coefficient of Isc	0.039%/°C

OPERATING CONDITIONS

Maximum System Voltage	1,000Vdc
Operating Temperature Range	-40°C (-40°F) to +85°C (185°F)
Maximum Series Fuse Rating	20A
Fire Safety Classification	Type 1
Front & Back Load (UL Standard)	Up to 5,600 Pa front and 5,631 Pa back load, Tested to UL 61730
Hail Safety Impact Velocity	25mm at 23 m/s

MECHANICAL DATA

Solar Cells	P-type mono-crystalline silicon
Cell Orientation	60 cells (6x10)
Module Dimension	1,748mm x 1,054mm x 40mm
Weight	20.3 kg (44.8 lbs.)
Front Glass	3.2mm, tempered, low-iron, anti-reflective
Frame	Anodized
Encapsulant	Ethylene vinyl acetate (EVA)
Junction Box	Protection class IP67 with 3 bypass-diodes
Cable	1.0m, Wire 4mm2 (12AWG)
Connector	Staubli PV-KBT4/6II-UR and PV-KST4/6II-UR, MC4, Renhe 05-8

SHIPPING INFORMATION

Container Feet	Ship To	Pallet	Panels	345 W Bin
53'	Most States	34	884	304.98 kW
Double Stack	CA	28	728	251.16 kW

PALLET [26 PANELS]

Weight	Height	Width	Length
1,263 lbs. (573 kg)	47.5 in (120.65 cm)	46 in (116.84 cm)	70.25 in (178.43 cm)

Mission Solar Energy
8303 S. New Braunfels Ave., San Antonio, Texas 78235
www.missionsolar.com | info@missionsolar.com

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