

PROJECT DESCRIPTION:

NEW SYSTEM SUMMARY

(01) TESLA POWERWALL 3 BATTERY, 13.5KWH
(01) TESLA BACKUP GATEWAY 3

EXISITNG EQUIPMENT SUMMARY

32 REC SOLAR: REC365AA (365W) MODULES
32 ENPHASE IQ7PLUS-72-2-US (240V) MICROINVERTERS

DC SYSTEM SIZE: 11.68 kW DC STC
AC SYSTEM SIZE: 9.28 kW AC

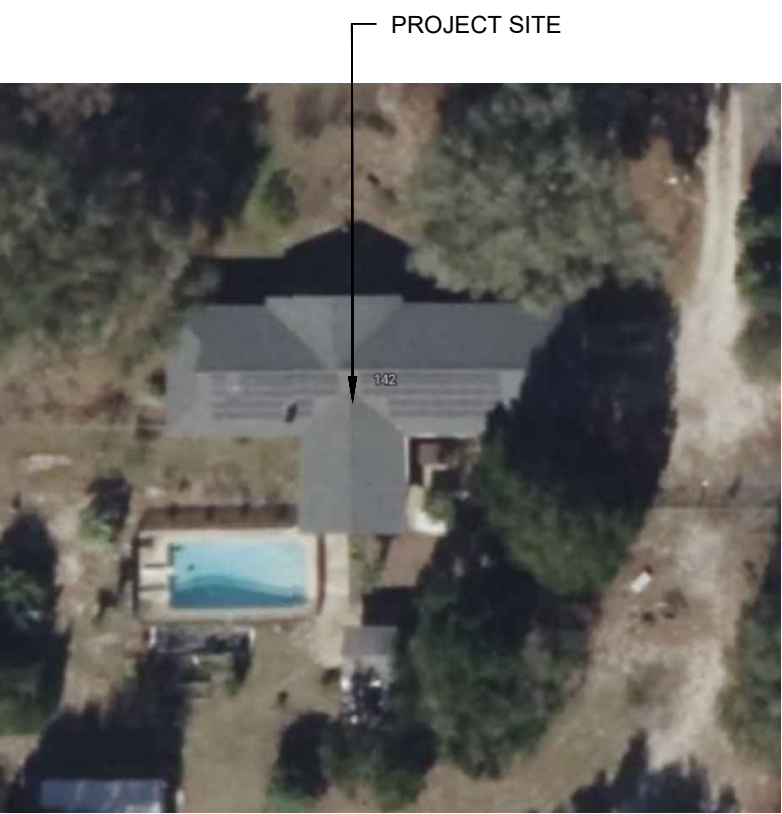
GOVERNING CODES :
FLORIDA RESIDENTIAL CODE, 8TH EDITION 2023 (FRC)
FLORIDA PLUMBING CODE, 8TH EDITION 2023 (FPC)
FLORIDA BUILDING CODE, 8TH EDITION 2023 EDITION (FBC)
FLORIDA MECHANICAL CODE, 8TH EDITION 2023 (FMC)
2020 NATIONAL ELECTRICAL CODE (NEC)
FLORIDA FIRE PREVENTION CODE, 8TH EDITION (FFPC)

ASCE 7-22 WIND DESIGN CRITERIA
ULTIMATE WIND SPEED: 130 MPH
NOMINAL WIND SPEED: 101 MPH
WIND EXPOSURE: C
RISK CATEGORY: II

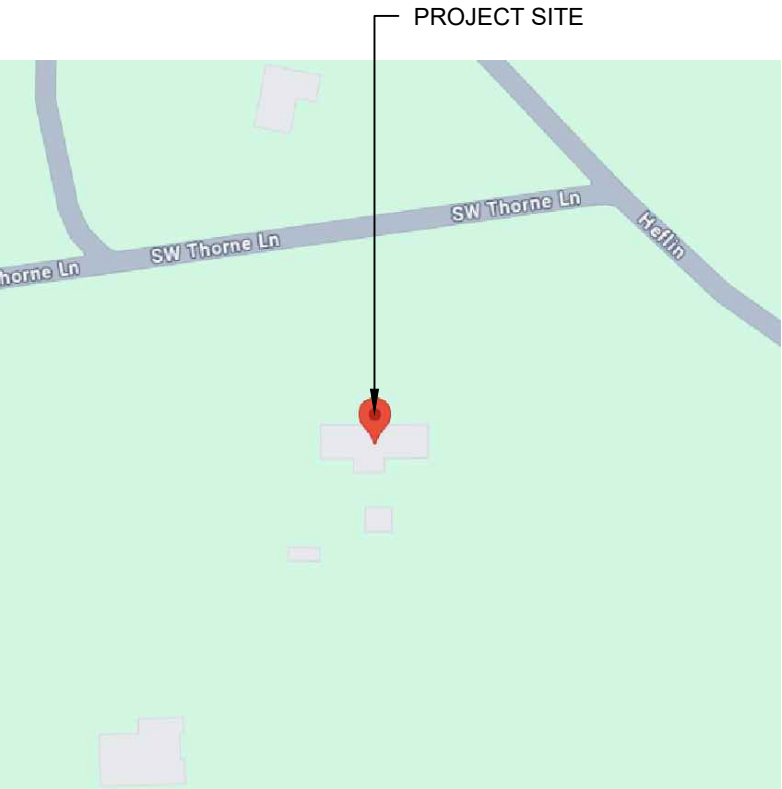
SHEET INDEX	
A-00	PLOT PLAN & VICINITY MAP
E-01	ELECTRICAL SITE PLAN & BOM
E-02	ELECTRICAL LINE DIAGRAM
E-03	WIRING CALCULATIONS
E-04	SYSTEM LABELING
DS-01	BATTERY DATA SHEET-1
DS-02	BATTERY DATA SHEET-2
DS-03	GATEWAY DATA SHEET

DISCLAIMER:
THE SET OF PLANS FOR THIS PROJECT IS INTENDED FOR DESIGNING THE PROJECT IN COMPLIANCE WITH APPLICABLE BUILDING CODES. THIS DOES NOT EXPRESS OR IMPLY ANY PERFORMANCE GUARANTEE OF ANY KIND. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND APPROVING THE LAYOUT WITH THE END USER PRIOR TO INSTALLATION. ALL DIMENSIONS AND CONDITIONS SHOWN IN THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SITE CONDITIONS IN THE FIELD PRIOR TO INSTALLATION AND ACCEPTS FULL RESPONSIBILITY.

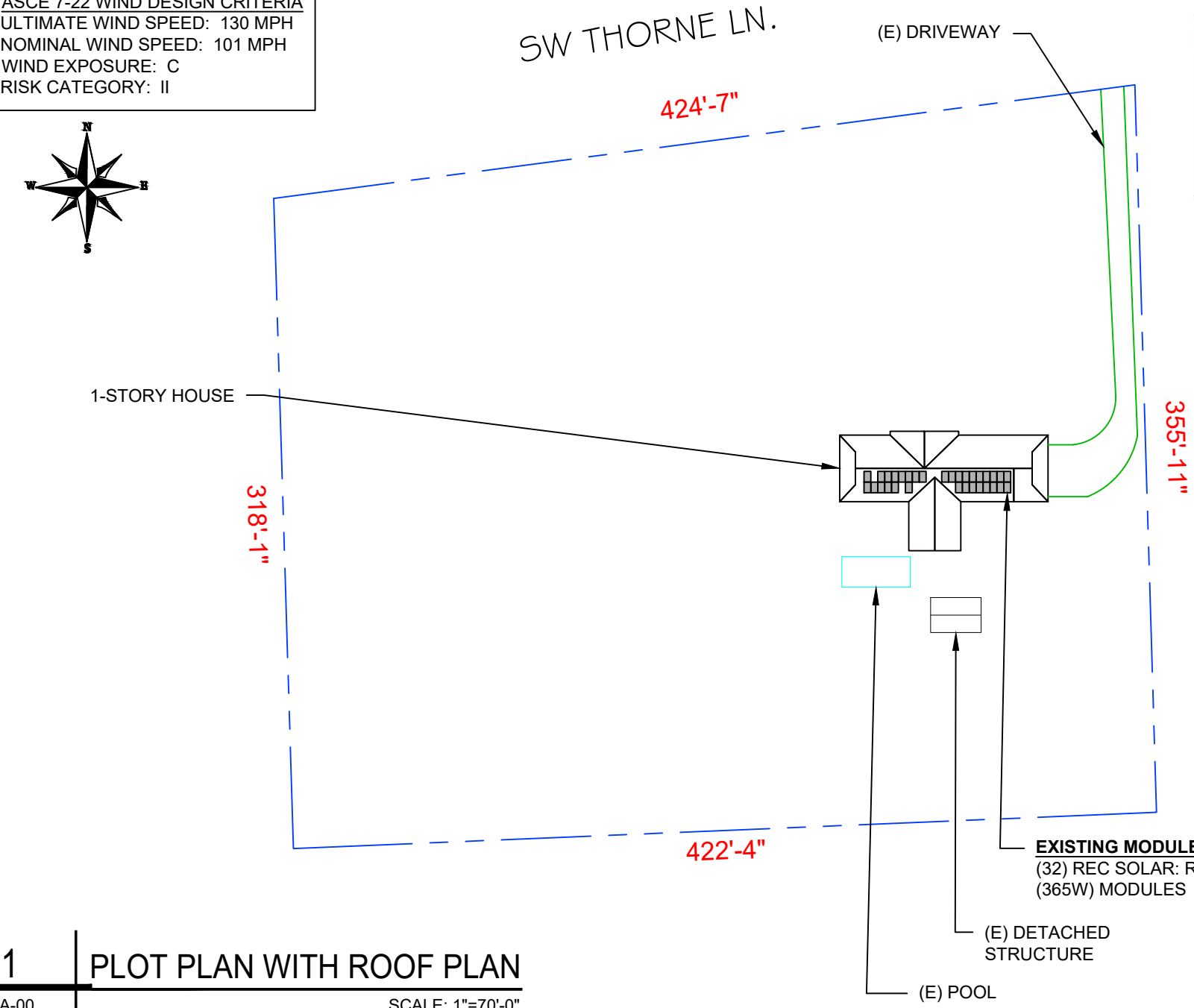
SCOPE OF WORK :
THE SCOPE OF WORK IS THE INSTALLATION OF A BATTERY SYSTEM TO AN EXISTING SOLAR PV SYSTEM. THE NATURE OF THE WORK IS ELECTRICAL ONLY.



2 HOUSE PHOTO
A-00 SCALE: NTS



3 VICINITY MAP
A-00 SCALE: NTS



1 PLOT PLAN WITH ROOF PLAN
A-00 SCALE: 1"=70'-0"



POWER PRODUCTION
MANAGEMENT INC
625 NW 8TH AVE.,
GAINESVILLE, FL 32601

REVISIONS

DESCRIPTION	DATE	REV

DATE: 08/28/2025

PROJECT NAME

REXFORD
142 SW THORNE LN.,
FORT WHITE, FL 32038

SHEET NAME

PLOT PLAN &
VICINITY MAP

SHEET SIZE

ANSI B
11" X 17"

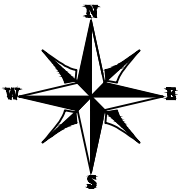
SHEET NUMBER

A-00

Signature with Seal

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(01) TESLA BACKUP GATEWAY 3

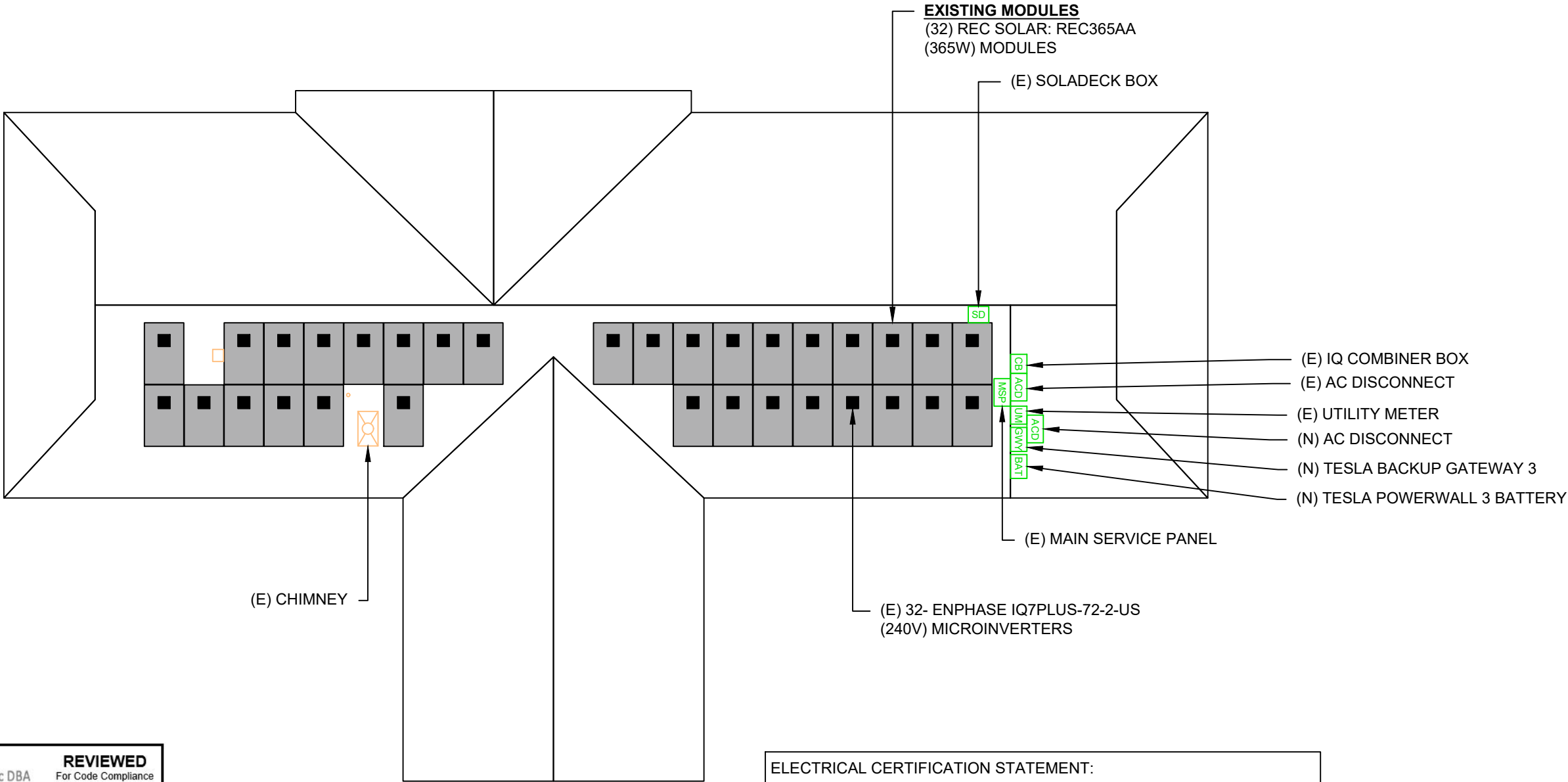
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SW THORNE LN.

(E) FRONT YARD

BILL OF MATERIALS		
EQUIPMENT	QTY	DESCRIPTION
BATTERY	1	TESLA POWERWALL 3 (1707000-XX-Y) BATTERY, 13.5KWH
GATEWAY	1	TESLA BACKUP GATEWAY 3 (1841000-X1-Y)
BREAKER	1	40A/2P BREAKER
BREAKER	1	60A/2P BREAKER
BREAKER	1	200A/2P BREAKER
AC DISCONNECT	1	60A RATED NON-FUSED AC DISCONNECT
FUSE	1	20A RATED FUSE



EXISTING MODULES
(32) REC SOLAR: REC365AA
(365W) MODULES

(E) SOLADECK BOX

(E) IQ COMBINER BOX
(E) AC DISCONNECT
(E) UTILITY METER
(N) AC DISCONNECT
(N) TESLA BACKUP GATEWAY 3
(N) TESLA POWERWALL 3 BATTERY

(E) MAIN SERVICE PANEL

(E) 32- ENPHASE IQ7PLUS-72-2-US
(240V) MICROINVERTERS

(E) CHIMNEY

(E) BACK YARD

ELECTRICAL CERTIFICATION STATEMENT:

THE SUBJECT PV SYSTEM HAS BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE 2020 NEC AND/OR THOSE SET FORTH BY THE FSEC CERTIFICATION, INCLUDING (AS APPLICABLE): THE MAXIMUM NUMBER OF MODULE STRINGS, THE MAXIMUM NUMBER OF MODULES PER STRING, MAXIMUM OUTPUT, MODULE MANUFACTURER AND MODEL NUMBER, AND INVERTER MANUFACTURER AND MODEL NUMBER.
HB1021, WHICH AMENDED F.S. 377.705 IN 2017, REMOVED THE REQUIREMENT FOR DESIGNERS TO HAVE THEIR SYSTEM DESIGNS CERTIFIED BY FSEC. THE LANGUAGE:
" ... UNLESS OTHERWISE CERTIFIED BY AN ENGINEER LICENSED PURSUANT TO CHAPTER 471 USING THE STANDARDS CONTAINED IN THE MOST RECENT VERSION OF THE FLORIDA BUILDING CODE," ALLOWS LICENSED ENGINEERS TO DESIGN PV SYSTEMS INDEPENDENTLY, AS THEY DO IN ALL OTHER TRADES.

LEGEND

- ACD - AC DISCONNECT
- GWY - GATEWAY 3
- BAT - BATTERY
- CB - IQ COMBINER BOX
- MSP - MAIN SERVICE PANEL
- UM - UTILITY METER
- SD - SOLADECK BOX
- Orange square - ROOF OBSTRUCTION
- Black square - MICRO-INVERTER



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142 SW THORNE LN.,
FORT WHITE, FL 32038

SHEET NAME

**ELECTRICAL
SITE PLAN & BOM**

SHEET SIZE

**ANSI B
11" X 17"**

SHEET NUMBER

E-01

Signature with Seal

My Amelia Inc DBA
Inspected.com

Reviewer:
Nathan Harris
RPX391, PX4623
Date: 09/10/2025

REVIEWED
For Code Compliance
in accordance with
Section 553.791, F.S.

Qualifier:
Spencer Moore
PE 99007
Date: 09/10/2025

NEW SYSTEM SUMMARY

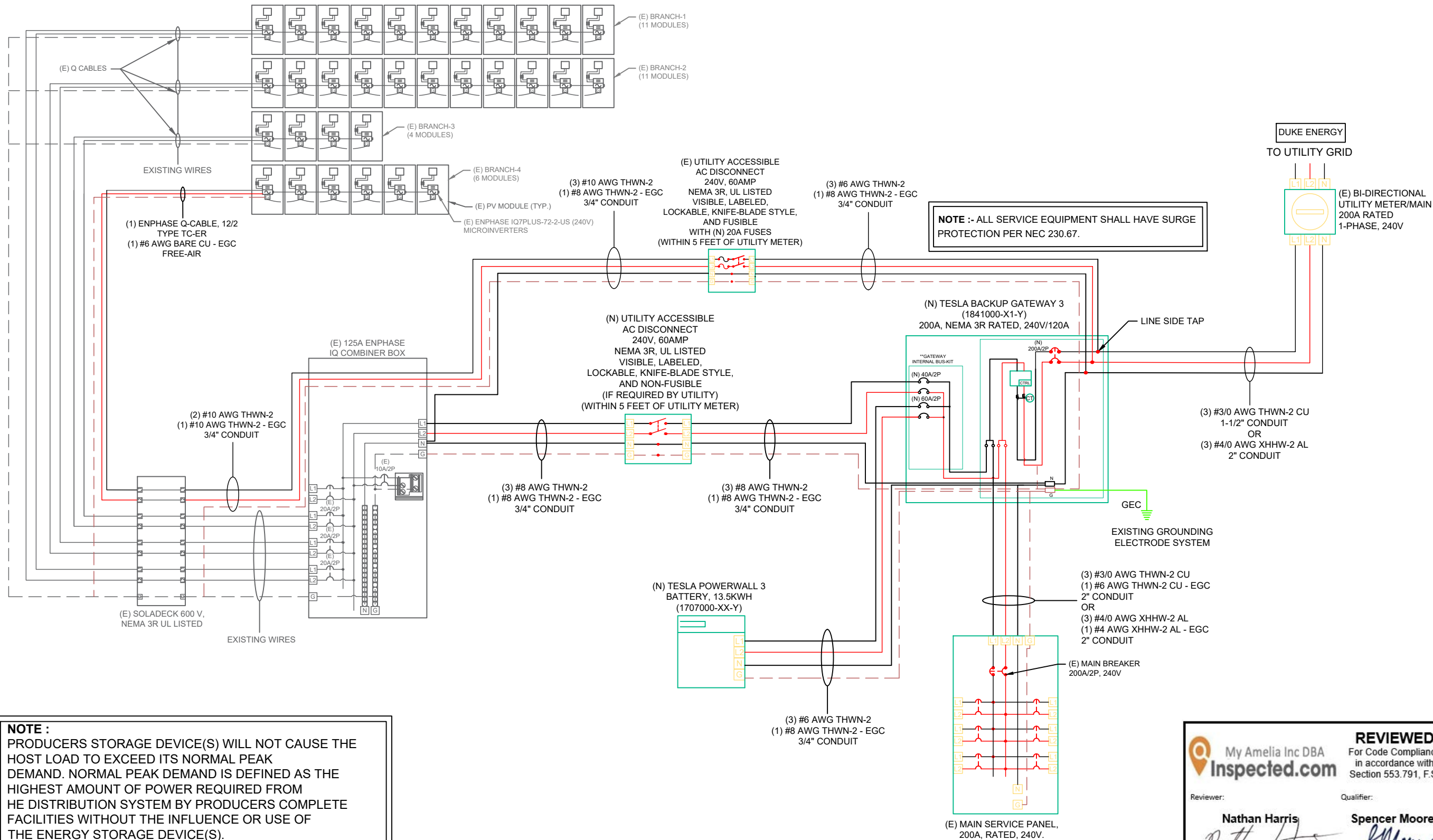
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INVERTER SPECIFICATIONS

MANUFACTURER / MODEL #	ENPHASE IQ7PLUS-72-2-US (240V) MICROINVERTERS
PEAK OUTPUT POWER	295W
MAX. CONTINUOUS POWER	290W



NOTE :
PRODUCERS STORAGE DEVICE(S) WILL NOT CAUSE THE HOST LOAD TO EXCEED ITS NORMAL PEAK DEMAND. NORMAL PEAK DEMAND IS DEFINED AS THE HIGHEST AMOUNT OF POWER REQUIRED FROM HE DISTRIBUTION SYSTEM BY PRODUCERS COMPLETE FACILITIES WITHOUT THE INFLUENCE OR USE OF THE ENERGY STORAGE DEVICE(S).



POWER PRODUCTION MANAGEMENT INC
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142 SW THORNE LN.,
FORT WHITE, FL 32038

SHEET NAME

**ELECTRICAL
LINE DIAGRAM**

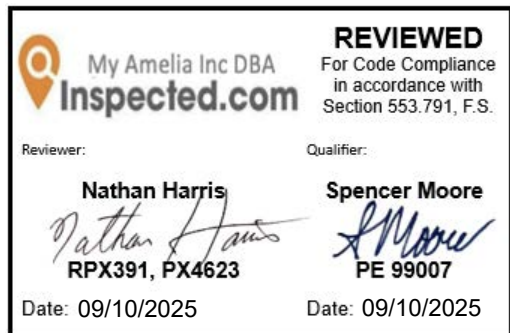
SHEET SIZE

**ANSI B
11" X 17"**

SHEET NUMBER

E-02

Signature with Seal



AMBIENT TEMPERATURE SPECS	
RECORD LOW TEMP	-5°
AMBIENT TEMP (HIGH TEMP 2%)	30°
CONDUIT MINIMUM HEIGHT FROM ROOF	0.5"
CONDUCTOR TEMPERATURE RATING	90°

AC CONDUCTOR AMPACITY CALCULATIONS:
ARRAY TO (E) SOLADECK BOX

EXPECTED WIRE TEMP (In Celsius)	30°
TEMP. CORRECTION PER TABLE (310.15)(B)(1)	1.00
# OF CURRENT CARRYING CONDUCTORS	N/A
# OF C.C. CONDUCTORS CORRECTION PER NEC 310.15(C)(1)	1.00
CIRCUIT CONDUCTOR SIZE	12 AWG
CIRCUIT CONDUCTOR AMPACITY	25A
REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A) & (B)	9.08A
1.25 x MAX AC OUTPUT x MAX # OF MICRO INVERTERS/CIRCUIT	
DERATED CIRCUIT CONDUCTOR AMPACITY	30.00A
Result should be greater than (9.08A)	

AC CONDUCTOR AMPACITY CALCULATIONS:
FROM (E) SOLADECK BOX TO (E) IQ COMBINER BOX

EXPECTED WIRE TEMP (In Celsius)	30°
TEMP. CORRECTION PER TABLE (310.15)(B)(1)	1.00
# OF CURRENT CARRYING CONDUCTORS	2
# OF C.C. CONDUCTORS CORRECTION PER NEC 310.15(C)(1)	1.00
CIRCUIT CONDUCTOR SIZE	10 AWG
CIRCUIT CONDUCTOR AMPACITY	35A
REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A) & (B)	9.08A
1.25 x MAX AC OUTPUT x MAX # OF MICRO INVERTERS/CIRCUIT	
DERATED CIRCUIT CONDUCTOR AMPACITY	40.00A
Result should be greater than (9.08A)	

ELECTRICAL NOTES

- 1.) ALL EQUIPMENT SHALL BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
- 2.) ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90°C WET ENVIRONMENT.
- 3.) WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.
- 4.) WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
- 5.) DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEM. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS , AND ACCESSORIES TO MEET APPLICABLE CODES AND STANDARDS.
- 6.) WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- 7.) ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND ACCESSIBLE.
- 8.) INSTALL MODULE AND RACKING GROUNDING HARDWARE PER MANUFACTURER'S INSTRUCTION.

AC CONDUCTOR AMPACITY CALCULATIONS:
FROM (E) IQ COMBINER BOX TO (E) AC DISCONNECT

EXPECTED WIRE TEMP (In Celsius)	30°
TEMP. CORRECTION PER TABLE (310.15)(B)(1)	1.00
# OF CURRENT CARRYING CONDUCTORS	3
# OF C.C. CONDUCTORS CORRECTION PER NEC 310.15(C)(1)	1.00
CIRCUIT CONDUCTOR SIZE	10 AWG
CIRCUIT CONDUCTOR AMPACITY	35A
REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A) & (B)	9.08A
1.25 X INVERTER OUTPUT CURRENT X NO. OF MODULES	
DERATED CIRCUIT CONDUCTOR AMPACITY	40.00A
Result should be greater than (9.08A)	

AC CONDUCTOR AMPACITY CALCULATIONS:
FROM (E) AC DISCONNECT TO POI

EXPECTED WIRE TEMP (In Celsius)	30°
TEMP. CORRECTION PER TABLE (310.15)(B)(1)	1.00
# OF CURRENT CARRYING CONDUCTORS	3
# OF C.C. CONDUCTORS CORRECTION PER NEC 310.15(C)(1)	1.00
CIRCUIT CONDUCTOR SIZE	6 AWG
CIRCUIT CONDUCTOR AMPACITY	65A
REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A) & (B)	9.08A
1.25 X INVERTER OUTPUT CURRENT X NO. OF MODULES	
DERATED CIRCUIT CONDUCTOR AMPACITY	75.00A
Result should be greater than (9.08A)	

AC CONDUCTOR AMPACITY CALCULATIONS:
FROM (E) IQ COMBINER BOX TO (N) AC DISCONNECT

EXPECTED WIRE TEMP (In Celsius)	30°
TEMP. CORRECTION PER TABLE (310.15)(B)(1)	1.00
# OF CURRENT CARRYING CONDUCTORS	3
# OF C.C. CONDUCTORS CORRECTION PER NEC 310.15(C)(1)	1.00
CIRCUIT CONDUCTOR SIZE	8 AWG
CIRCUIT CONDUCTOR AMPACITY	50A
REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A) & (B)	39.33A
1.25 X INVERTER OUTPUT CURRENT X NO. OF MODULES	
DERATED CIRCUIT CONDUCTOR AMPACITY	40.00A
Result should be greater than (39.33A)	

AC CONDUCTOR AMPACITY CALCULATIONS:
FROM (N) AC DISCONNECT TO GATEWAY

EXPECTED WIRE TEMP (In Celsius)	30°
TEMP. CORRECTION PER TABLE (310.15)(B)(1)	1.00
# OF CURRENT CARRYING CONDUCTORS	3
# OF C.C. CONDUCTORS CORRECTION PER NEC 310.15(C)(1)	1.00
CIRCUIT CONDUCTOR SIZE	8 AWG
CIRCUIT CONDUCTOR AMPACITY	50A
REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A) & (B)	39.33A
1.25 X INVERTER OUTPUT CURRENT X NO. OF MODULES	
DERATED CIRCUIT CONDUCTOR AMPACITY	40.00A
Result should be greater than (39.33A)	

AC CONDUCTOR AMPACITY CALCULATIONS:
FROM GATEWAY TO BATTERY

EXPECTED WIRE TEMP (In Celsius)	30°
TEMP. CORRECTION PER TABLE (310.15)(B)(1)	1.00
# OF CURRENT CARRYING CONDUCTORS	3
# OF C.C. CONDUCTORS CORRECTION PER NEC 310.15(C)(1)	1.00
CIRCUIT CONDUCTOR SIZE	6 AWG
CIRCUIT CONDUCTOR AMPACITY	65A
REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A) & (B)	60.00A
1.25 x MAX BATTERY OUPUT CURRENT	
DERATED CIRCUIT CONDUCTOR AMPACITY	75.00A
Result should be greater than (60.00A)	



My Amelia Inc DBA
Inspected.com

REVIEWED

For Code Compliance
in accordance with
Section 553.791, F.S.

Reviewer:

Qualifier:

Nathan Harris



RPX391, PX4623

Spencer Moore



PE 99007

Date: 09/10/2025

Date: 09/10/2025



POWER PRODUCTION
MANAGEMENT INC
625 NW 8TH AVE.,
GAINESVILLE, FL 32601

REVISIONS

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REXFORD

142 SW THORNE LN.,
FORT WHITE, FL 32038

SHEET NAME

WIRING
CALCULATIONS

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

E-03

Signature with Seal

⚠

WARNING

ELECTRIC SHOCK HAZARD

TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION
NEC 690.13(B) & NEC 690.15(C)

LABEL LOCATION:
WHERE ALL TERMINALS OF THE DISCONNECTING MEANS
MAY BE ENERGIZED IN THE OPEN POSITION, A WARNING
SIGN SHALL BE MOUNTED ON OR ADJACENT TO THE
DISCONNECTING MEANS.
NEC 690.13(B) & NEC 690.15(C)

⚠

WARNING

THIS EQUIPMENT FED BY MULTIPLE SOURCES.
TOTAL RATING OF ALL OVERCURRENT DEVICES
EXCLUDING MAIN SUPPLY OVERCURRENT DEVICE,
SHALL NOT EXCEED AMPACITY OF BUSBAR.

LABEL LOCATION:
PERMANENT WARNING LABELS SHALL BE APPLIED TO
DISTRIBUTION EQUIPMENT
NEC 705.12(B)(3)(3)

ENERGY
STORAGE
SYSTEM
DISCONNECT

LABEL LOCATION ENERGY STORAGE SYSTEMS:
CODE REF: NEC 706.15(C)
Roll: 596-01004 / 10-Pk: 596-01041

EMERGENCY CONTACT
PPM SOLAR
(352) 309-7727

PHOTOVOLTAIC

240 V

AC DISCONNECT

LABEL LOCATION:
AC DISCONNECT
CODE REF: NEC 690.13(B), 690.15, 705.20

PHOTOVOLTAIC AC DISCONNECT

NOMINAL OPERATING AC VOLTAGE

240 V

RATED AC OUTPUT CURRENT

31.46 A

LABEL LOCATION:
(N) AC DISCONNECT
CODE REF: NEC 690.54

PHOTOVOLTAIC AC DISCONNECT

NOMINAL OPERATING AC VOLTAGE

240 V

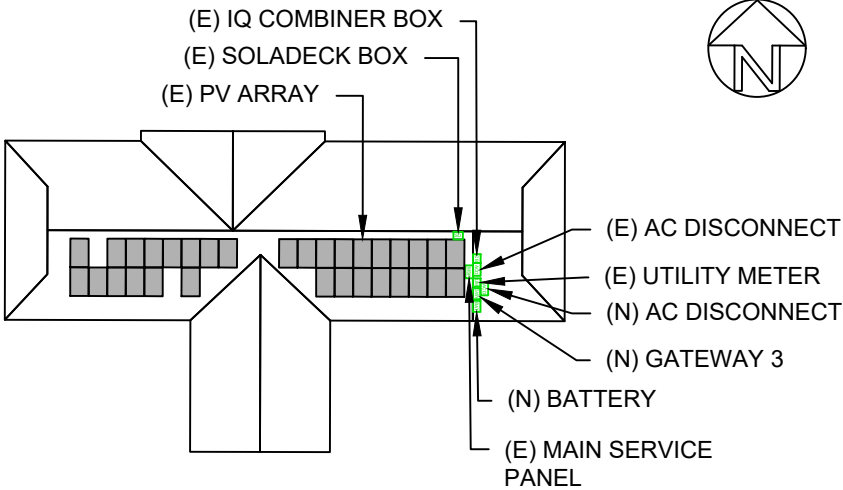
RATED AC OUTPUT CURRENT

7.26 A

LABEL LOCATION:
(E) AC DISCONNECT
CODE REF: NEC 690.54

CAUTION

MULTIPLE SOURCES OF POWER



142 SW THORNE LN., FORT WHITE, FL 32038

LABEL LOCATION:
MAIN SERVICE DISCONNECT / MAIN DISTRIBUTION PANEL, PV
DISCONNECT LOCATION NO MORE THAN 1 M (3 FT) FROM THE SERVICE
DISCONNECT PER CODE NEC 705.10 & NEC 710.10
Roll: 558-00358 OR 558-00346



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FORT WHITE, FL 32038

SHEET NAME
SYSTEM
LABELING

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
E-04

Signature with Seal

Q

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Nathan Harris
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RPX391, PX4623
Date: 09/10/2025

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Spencer Moore
Spencer Moore
PE 99007
Date: 09/10/2025

Powerwall 3

Power Everything



My Amelia Inc DBA
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RPX391, PX4623
Date: 09/10/2025

Qualifier:

Spencer Moore

PE 99007
Date: 09/10/2025

Powerwall 3 is a fully integrated solar and battery system, designed to accelerate the transition to sustainable energy. Customers can receive whole home backup, cost savings, and energy independence by producing and consuming their own energy while participating in grid services. Once installed, customers can manage their system using the Tesla App to customize system behavior to meet their energy goals.

Powerwall 3 achieves this by supporting up to 20 kW DC of solar and providing up to 11.5 kW AC of continuous power per unit. It has the ability to start heavy loads rated up to 185 LRA, meaning a single unit can support the power needs of most homes. Powerwall 3 Expansions make it easier and more affordable to scale up customers’ systems to meet their current or future needs. Powerwall 3 is designed for fast and efficient installations, modular system expansion, and simple connection to any electrical service.



Powerwall 3 Technical Specifications

System Technical Specifications

Model Number	1707000-xx-y			
Nominal Grid Voltage (Input & Output)	120/240 VAC			
Grid Type	Split phase			
Frequency	60 Hz			
Nominal Battery Energy	13.5 kWh AC ¹			
Nominal Output Power (AC)	5.8 kW	7.6 kW	10 kW	11.5 kW
Maximum Apparent Power	5,800 VA	7,600 VA	10,000 VA	11,500 VA
Maximum Continuous Current	24 A	31.7 A	41.7 A	48 A
Overcurrent Protection Device ²	30 A	40 A	60 A	60 A
Configurable Maximum Continuous Discharge Power Off-Grid (PV Only, -20°C to 25°C)	15.4 kW ³			
Maximum Continuous Charge Current / Power (Powerwall 3 only)	20.8 A AC / 5 kW			
Maximum Continuous Charge Current / Power (Powerwall 3 with up to (3) Expansion units)	33.3 A AC / 8 kW			
Output Power Factor Rating	0 - 1 (Grid Code configurable)			
Maximum Output Fault Current (1 s)	160 A			
Maximum Short-Circuit Current Rating	10 kA			
Load Start Capability	185 LRA			
Solar to Battery to Home/Grid Efficiency	89% ^{1,4}			
Solar to Home/Grid Efficiency	97.5% ⁵			
Power Scalability	Up to 4 Powerwall 3 units supported			
Energy Scalability	Up to 3 Expansion units (for a maximum total of 7 units)			
Supported Islanding Devices	Gateway 3, Backup Switch, Backup Gateway 2			
Connectivity	Wi-Fi (2.4 and 5 GHz), Ethernet, Cellular (LTE/4G [®])			
Hardware Interface	Dry contact relay, Rapid Shutdown (RSD) certified switch and 2-pin connector, RS-485 for meters			
AC Metering	Revenue Grade (+/- 0.5%, ANSI C12.20)			
Protections	Integrated arc fault circuit interrupter (AFCI), Isolation Monitor Interrupter (IMI), PV Rapid Shutdown (RSD) using Tesla Mid-Circuit Interrupters			
Customer Interface	Tesla Mobile App			
Warranty	10 years			

¹Values provided for 25°C (77°F), at beginning of life. 3.3 kW charge/discharge power.

²See [Powerwall 3 Installation Manual](#) for fuse requirements if using fuse for overcurrent protection.

³15.4kW off-grid maximum continuous discharge power is only available if on-grid rating is 11.5 kW. If enabled, Powerwall 3 must be installed with an 80 A breaker and appropriately sized conductors.

⁴Typical solar shifting use case.

⁵Tested using CEC weighted efficiency methodology.

⁶The customer is expected to provide internet connectivity for Powerwall 3; cellular should not be used as the primary mode of connectivity. Cellular connectivity subject to network operator service coverage and signal strength.



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142 SW THORNE LN.,
FORT WHITE, FL 32038

SHEET NAME
BATTERY
DATA SHEET-1

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
DS-01

Signature with Seal

Powerwall 3 Technical Specifications

Solar Technical Specifications

Maximum Solar STC Input	20 kW
Withstand Voltage	600 V DC
PV DC Input Voltage Range	60 — 550 V DC
PV DC MPPT Voltage Range	60 — 480 V DC
MPPTs	6
Maximum Current per MPPT (I _{mp})	15 A ^{7,8}
Maximum Short Circuit Current per MPPT (I _{sc})	19 A ⁸

⁷ Only applicable to Powerwall 3 units with 15 A I_{MP} on the product label. Otherwise, Powerwall 3 has an I_{MP} of 13 A.
⁸ When PV strings are combined on the roof and the DC input current exceeds the MPPT rating, a jumper can be used to combine two MPPTs into a single input to intake DC current up to 30 A I_{MP} / 38 A I_{SC} (or 26 A I_{MP} / 30 A I_{SC} if Powerwall 3 is labeled with 13 A I_{MP} / 15 A I_{SC}).

Environmental Specifications

Operating Temperature	–20°C to 50°C (–4°F to 122°F) ⁹
Operating Humidity (RH)	Up to 100%, condensing
Storage Temperature	–20°C to 30°C (–4°F to 86°F), up to 95% RH, non-condensing, State of Energy (SOE): 25% initial
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Rating	NEMA 3R
Ingress Rating	IP67 (Battery & Power Electronics) IP55 (Wiring Compartment)
Pollution Rating	PD3
Operating Noise @ 1 m	< 50 db(A) typical < 62 db(A) maximum

⁹ Performance may be de-rated at operating temperatures above 40°C (104°F).

Compliance Information

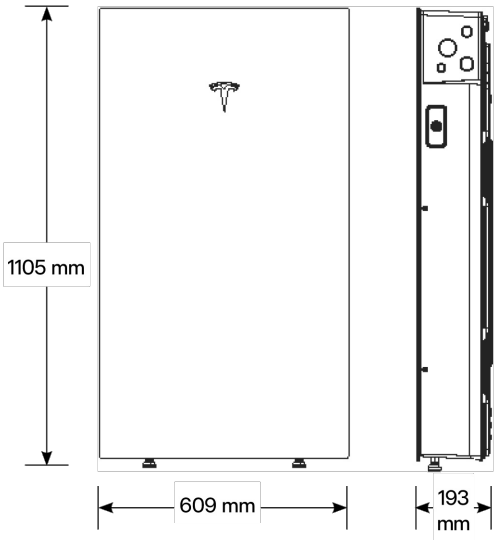
Certifications	UL 1741, UL 9540, UL 9540A, UL 3741, UL 1741 PCS, UL 1741 SA, UL 1741 SB, UL 1741 Multimode, UL 1973, UL 1699B, UL 1998, CSA C22.2 No. 0.8, CSA C22.2 No. 107.1, CSA C22.2 No. 330, CSA 22.3 No. 9, IEEE 1547, IEEE 1547A, IEEE 1547.1, CA Rule No.21
Grid Connection	United States and Canada
Emissions	FCC Part 15 Class B, ICES 003
Environmental	RoHS Directive 2011/65/EU
Seismic	AC156, IEEE 693-2005 (high)
Fire Testing	Meets the unit level performance criteria of UL 9540A

Powerwall 3 Technical Specifications

Mechanical Specifications

Dimensions	1105 x 609 x 193 mm (43.5 x 24 x 7.6 in) ¹⁰
Total Weight of Installed Unit	132 kg (291.2 lb)
Weight of Powerwall 3	124 kg (272.5 lb)
Weight of Glass Front Cover	6.5 kg (14.5 lb)
Weight of Wall Bracket	1.9 kg (4.2 lb)
Mounting Options	Floor or wall mount

¹⁰ These dimensions include the glass front cover being installed on Powerwall 3.





My Amelia Inc DBA
Inspected.com

REVIEWED
For Code Compliance
in accordance with
Section 553.791, F.S.

Reviewer:

Nathan Harris
Nathan Harris
RPX391, PX4623

Date: 09/10/2025

Qualifier:

Spencer Moore
Spencer Moore
PE 99007

Date: 09/10/2025



**POWER PRODUCTION
MANAGEMENT INC**
625 NW 8TH AVE.,
GAINESVILLE, FL 32601

REVISIONS

DESCRIPTION	DATE	REV

DATE: 08/28/2025

PROJECT NAME

REXFORD

142 SW THORNE LN.,
FORT WHITE, FL 32038

SHEET NAME

**BATTERY
DATA SHEET-2**

SHEET SIZE

**ANSI B
11" X 17"**

SHEET NUMBER

DS-02

Signature with Seal



My Amelia Inc DBA
Inspected.com

REVIEWED

For Code Compliance
in accordance with
Section 553.791, F.S.

Reviewer:

Nathan Harris



RPX391, PX4623

Qualifier:

Spencer Moore



PE 99007

Date: 09/10/2025

Date: 09/10/2025

Gateway 3

Tesla Gateway 3 controls connection to the grid in a Powerwall system, automatically detecting outages and providing seamless transition to backup power. It provides energy monitoring that is used by Powerwall for solar self-consumption, time-based control, and backup operation.

Performance Specifications

Model Number	1841000-x1-y	AC Meter	+/- 0.5%
Nominal Grid Voltage	120/240 V AC	Communication	CAN
Grid Configuration	Split phase	User Interface	Tesla App
Grid Frequency	60 Hz	Backup Transition	Automatic disconnect for seamless backup
Continuous Current Rating	200 A	Overcurrent Protection Device	100–200 A Service entrance rated Eaton CSR, BWH, or BW, or Square D QOM breakers
Maximum Supply Short Circuit Current	22 kA with Square D or Eaton main breaker 25 kA with Eaton main breaker ¹⁷	Internal Panelboard	200 A 8-space/16 circuit breakers Eaton BR, Siemens QP, or Square D HOM breakers rated to 10–125A
IEC Protective Class	Class I	Warranty	10 years
Overvoltage Category	Category IV		

¹⁷ Only Eaton CSR or BWH main breakers are 25 kA rated.

Environmental Specifications

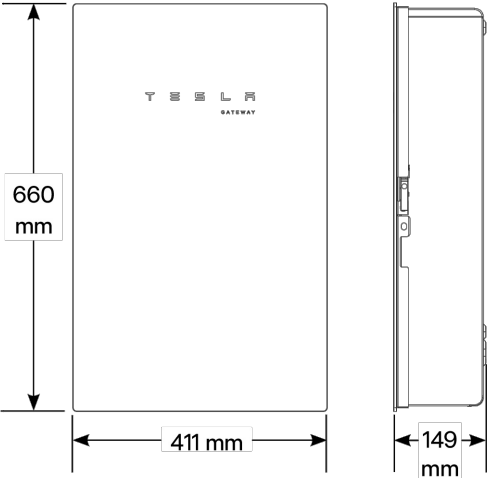
Operating Temperature	–20°C to 50°C (–4°F to 122°F)
Operating Humidity (RH)	Up to 100%, condensing
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Type	NEMA 3R

Compliance Information

Certifications	UL 67, UL 869A, UL 916, UL 1741 PCS, CSA 22.2 107.1, CSA 22.2 29
Emissions	FCC Part 15, Class B, ICES 003

Mechanical Specifications

Dimensions	660 x 411 x 149 mm (26 x 16 x 6 in)
Weight	16.3 kg (36 lb)
Mounting options	Wall mount



**POWER PRODUCTION
MANAGEMENT INC**
625 NW 8TH AVE.,
GAINESVILLE, FL 32601

REVISIONS

DESCRIPTION	DATE	REV

DATE: 08/28/2025

PROJECT NAME

REXFORD

142 SW THORNE LN.,
FORT WHITE, FL 32038

SHEET NAME

**GATEWAY
DATA SHEET**

SHEET SIZE

**ANSI B
11" X 17"**

SHEET NUMBER

DS-03

Signature with Seal