# WARREN & ANGELA MARLOWE

## 3217 PINEMOUNT RD
## LAKE CITY, FL 32604

THIS IS AN EXPANSION OF AN EXISTING PHOTOVOLTAIC ARRAY WITH BATTERY BACKUP. WE WILL BE ADDING 1X TELSA POWERWALL 2 BATTERY. NO OTHER CHANGES TO BE MADE TO THE EXISTING SYSTEM SIZE OR ELECTRICAL INFRASTRUCTURE.

DOCUMENTS SIZED FOR 11"X17" PAPER

SUMMARY



PAGE INDEX


SOLAR CONTRACTOR:
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CLIENT:
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GENERAL CONTRACTOR:
N/A

AUTHORITY HAVING JURISDICTION:
COLUMBIA COUNTY BUILDING DEPARTMENT

UTILITY:
FLORIDA POWER AND LIGHT (FP&L)

Columbia County Building Department — Plans Reviewed for Code Compliance — State of Florida

PARTICIPANTS

CODE REFERENCES

2023 8TH EDITION FLORIDA BUILDING CODE : BUILDING

2023 8TH EDITION FLORIDA BUILDING CODE : RESIDENTIAL

2023 8TH EDITION FLORIDA BUILDING CODE : MECHANICAL

2023 8TH EDITION FLORIDA BUILDING CODE : PLUMBING

2023 8TH EDITION FLORIDA BUILDING CODE : FUEL GAS

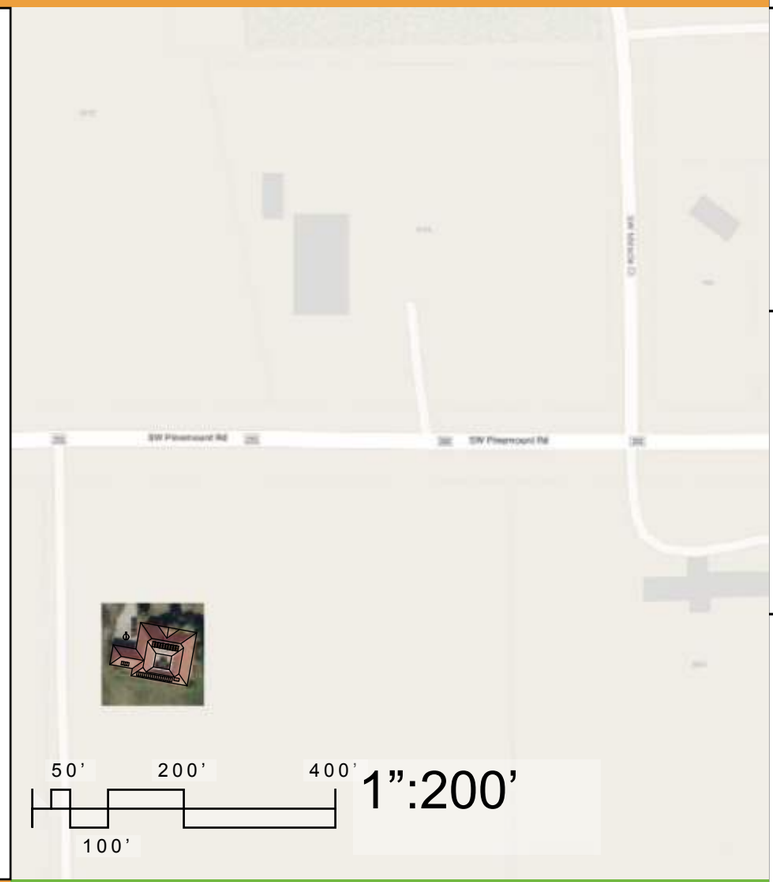
2023 8TH EDITION FLORIDA BUILDING CODE : ENERGY CONSERVATION

2023 8TH EDITION FLORIDA BUILDING CODE : EXISTING BUILDING

2023 8TH EDITION FLORIDA BUILDING CODE : ACCESSIBILITY

2023 8TH EDITION FLORIDA FIRE PREVENTION CODE (NFPA)

2020 NATIONAL ELECTRIC CODE (NEC)




SITE LOCATION

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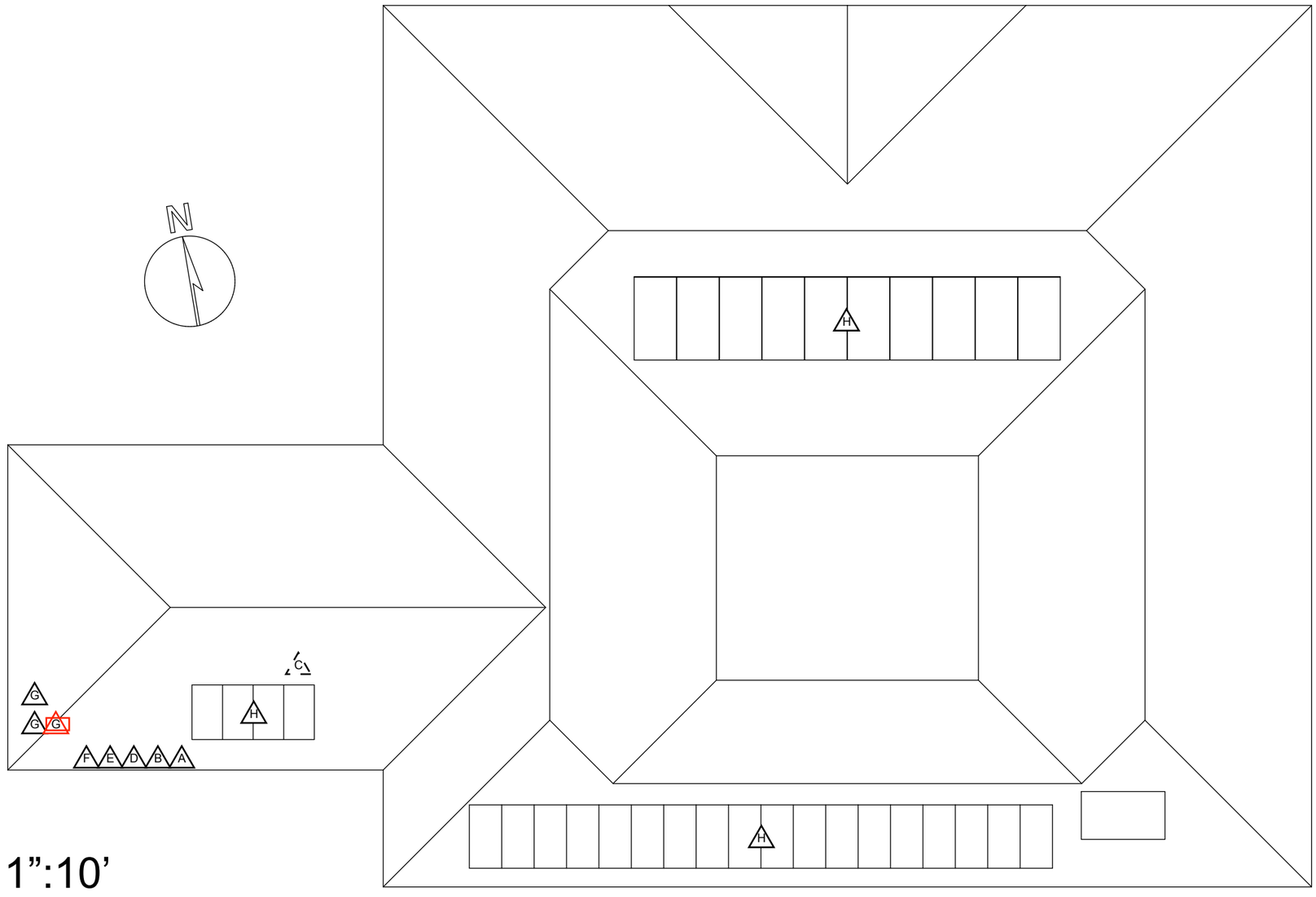
Project Name: WARREN & ANGELA MARLOWE

Project Address: 3217 PINEMOUNT RD LAKE CITY, FL 32604

PAGE TITLE: GENERAL NOTES

PAGE #: G01

| EQUIPMENT SCHEDULE △ | | |
|---|---|---|
| LETTER | TYPE | DESCRIPTION |
| A | UTILITY METER SOCKET | (E) 200A METER SOCKET \| 120/240V (GENERIC) |
| B | TESLA GATEWAY 2 | (E) 200A MAIN BREAKER \| 120/240V \| NEMA 3R |
| C | MSP | (E) MAIN SERVICE PANEL \| 200A MAIN BREAKER \| 120/240V \| SERVICE RATED \| NEMA 1 |
| D | DISCONNECT | (E) AC DISCONNECT \| UNFUSED \| 120/240V \| NEMA 3R |
| E | INVERTER | (E) SUNPOWER SPR 5000M INVERTER |
| F | INVERTER | (E) SMA SB 5.0-US INVERTER |
| G | BATTERY | 2X (E) AND 1X (N) TESLA POWERWALL 2 BATTERY |
| H | MODULES | (E) 22X SUNPOWER 230W AND 10X Q.CELLS 485W MODULES |

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5’
1”:10’

01 - EQUIPMENT LOCATIONS

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Project Name:
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Project Address:
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PAGE TITLE:
EQUIPMENT LOCATIONS

PAGE #:
A01

| EQUIPMENT SCHEDULE | | |
|---|---|---|
| LETTER | TYPE | DESCRIPTION |
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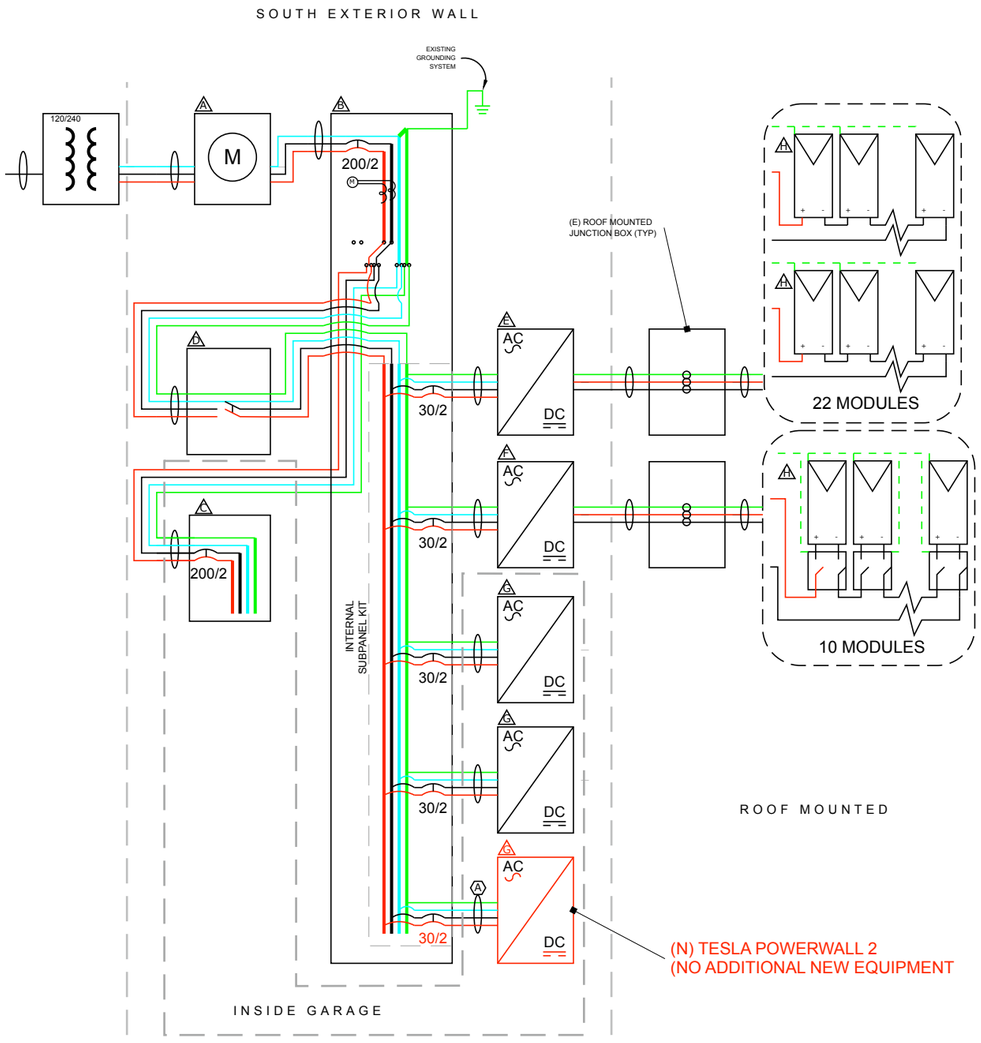
| H | MODULES | (E) 22X SUNPOWER 230W AND 10X Q.CELLS 485W MODULES |

| CONDUCTOR SIZES | |
|---|---|
| A | (1 SET) 2X #10 CU + 1X #10 CU NTRL + 1X #10 CU GRD IN 0.75" EMT |




## ELECTRICAL NOTES

1.) ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
2.) ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE 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 SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL 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 READILY VISIBLE.
8.) MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
9.) MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN LUG.
10.) THE POLARITY OF THE GROUNDED CONDUCTORS IS NEGATIVE

## ADDITIONAL NOTES:

1. EACH MODULE TO BE GROUNDED USING THE SUPPLIED CONNECTION POINT PER MANUFACTURER'S REQUIREMENTS. ALL SOLAR MODULES, EQUIPMENT, AND METALLIC COMPONENTS ARE TO BE BONDED. IF THE EXISTING GROUNDING ELECTRODE SYSTEM CAN NOT BE VERIFIED OR IS ONLY METALLIC WATER PIPING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE.
2. ALL PLAQUES AND SIGNAGE REQUIRED BY THE LATEST EDITION OF NATIONAL ELECTRICAL CODE. LABEL SHALL BE METALLIC OR PLASTIC, ENGRAVED OR MACHINE PRINTED IN A CONTRASTING COLOR TO THE PLAQUE. PLAQUE SHALL BE UV RESISTANT IF EXPOSED TO SUNLIGHT.
3. DC CONDUCTORS SHALL BE RUN IN EMT AND SHALL BE LABELED, "CAUTION DC CIRCUIT" OR EQUIV. EVERY 5 FT.
4. EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH 250.134 OR 250.136(A).
5. CONFIRM LINE SIDE VOLTAGE AT ELECTRIC UTILITY SERVICE PRIOR TO CONNECTING INVERTER. VERIFY SERVICE VOLTAGE IS WITHIN INVERTER VOLTAGE OPERATIONAL RANGE.
6. OUTDOOR EQUIPMENT SHALL BE NEMA-3R RATED OR BETTER.
7. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC.
8. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE, AND FOR ROOF-MOUNTED SYSTEMS, WIRING MUST BE PERMANENTLY AND COMPLETELY HELP OFF OF THE ROOF SURFACE. NEC 110.2 - 110.4 / 300.4

01 - LINE DIAGRAM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Project Name: WARREN & ANGELA MARLOWE

Project Address: 3217 PINEMOUNT RD LAKE CITY, FL 32604

PAGE TITLE: LINE DIAGRAM

PAGE #: E01

| LOCATION INFORMATION | |
|---|---|
| Location | Jacksonville AP |
| Temp, Ambient High (ASHRAE 2%) | 34.0 C |
| Temp, Ambient Low (ASHRAE Extreme) | -5.0 C |
| Temp, Module Test | 25.0 C |
| Temp, Delta Low | -30.0 C |
| Temp, Below Ground | 25.0 C |
| **MODULE SPECIFICATIONS AND CALCULATIONS** | |
| ITEM | MODULE 1 |
| Module Manufacturer | Q Cells |
| Module Model | Q.Peak Duo XL-G10.3 BFG/485 |
| Module Power STC | 485 W |
| Module Operating Volt | 45.63 VDC |
| Module Open-circuit Volt | 53.63 VDC |
| Module Coeff Volt/Temp | -0.27 %/C |
| Module Max Volt (Voc*(1+Td*VTCoef)) | 57.97 VDC |
| Module Operating Current | 10.63 A |
| Module Short-Circuit Current | 11.16 A |
| Module Max-Current (Isc*125%) | 13.95 A |
| **INVERTER SPECIFICATIONS AND CALCULATIONS** | |
| ITEM | INVERTER 1 |
| Inverter Make | TESLA |
| Inverter Model | POWERWALL 2 |
| Inverter Qnty | 3 |
| Inverter Power | 5,800 W |
| Inverter Input Voltage, Max DC | 50 |
| Inverter Input Voltage, Nominal DC | 50 |
| Inverter Output Voltage, AC | 240 VAC |
| Inverter Input Current, Max DC | 0.0 ADC |
| Inverter Output Current, AC | 24.0 AAC |
| Inverter Output Frequency | 60 Hz |
| Inverter Phase Qnty | 1 Phase |
| Inverter UL Listing | UL1741 |
| Inverter Grounding | Ungrounded |

| CONDUCTOR, CONDUIT, & OCD SIZES 310.10(H) | |
|---|---|
| Conductor ID in Oneline | A |
| Current-carrying Conductor | #10 |
| Insulation Type | THWN-2 |
| Side of Service | Load |
| Insulation Temp Rating | 90 C |
| Conductor Material | CU |
| Neutral Sizing | Current-Carry |
| Over-current Device Type | Breaker |
| Min Current-Carrying Conductor Based on Ampacities | #10 |
| Neutral, 310.10 | #10 |
| EGC, 250.122,250.28,250.102,310.10,690.45,690.47 | #10 |
| Over-Current Device | 30 A |
| **CURRENT SOURCE** | |
| Current Type | AC |
| Current Source | Inverter 1 |
| Parallel Sources Combined | Not Combined |
| # Parallel Sources | 1 |
| # Sets of Conductors | 1 |
| # Conduits | 1 |
| # Sets Conductors per OCD | 1 |
| # Conductors per Conduit | 4 |
| # Current-Carrying Conductors per Conduit | 2 |
| # Grounds per Conduit | 1 |
| # Neutrals per Conduit | 1 |
| # Sources per Conductor | 1 |
| Source Maximum Current | 24.0 A |
| Conductor Maximum Current | 24.0 A |
| **CONDITIONS OF USE CALCULATION 310.15 690.8(B)(2)(b)** | |
| Bottom of Conduit Distance Above Roof (or Below Ground) | N/A |
| Temperature Ambient High | 34.0 C |
| Temperature Adjustment (roof/sun) | 0.0 C |
| Total Temperature | 1.0 C |
| Derate for Temp | 96% |
| Derate for Fill / Bundled | 100% |
| Conductor Ampacity, w/o derates | 40.0 A |
| Min Ampacity required >= Imax conductor*125% 690.8(B)(1) | 30.0 A |
| Conductor Ampacity, with derates and 240.4(D) | 30.0 A |
| Min Ampacity required >= Imax conductor 690.8(B)(2) | 24.0 A |
| **TERMINAL CALCULATION 110.14 310.15 690.8(B)(2)(a)** | |
| Terminal Temp Rating | 75 C |
| Conductor Ampacity at terminals | 30.0 A |
| Min Ampacity required >= Imax conductor*1.25 690.8(B)(1) | 30.0 A |
| **OVER-CURRENT 690.8, 690.9, 240.4B** | |
| # of Parallel Sources per OCD | 1 |
| Min Ampacity required >= # parallel sources*Imax source x 1.25 | 30.0 A |
| Over-current Device | 30.0 A |
| **CONDUIT ANNEX C, CHAPTER 9 TABLE 1, 376.22** | |
| Conduit Type | EMT |
| Nipple (less than or equal to 24-inches) | Not Nipple |
| Conduit diameter | 0.75" |
| Max Allowable Conduit Fill | 40% |
| Conduit Fill | 16% |
| **VOLTAGE DROP (WORST CASE), CHAPTER 9, TABLES 8 & 9** | |
| Conductor Length One-Way | 25.6' |
| Power Factor | 1 |
| Resistance | 1.2 ohm/kft |
| Reactance | 0.063 ohm/kft |
| Impedance | 1.2 ohm/kft |
| Source Operating Current | 24.0 A |
| Conductor Operating Current, | 24.0 A |
| Nominal Operating Voltage | 240.0 V |
| Voltage Drop, total | 1.47 V |
| Voltage Drop, percentage | 0.61% |


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Project Name: WARREN & ANGELA MARLOWE

Project Address: 3217 PINEMOUNT RD LAKE CITY, FL 32604

PAGE TITLE: ELECTRICAL CALCULATIONS

PAGE #: E02

# POWERWALL

Tesla Powerwall is a fully-integrated AC battery system for residential or light commercial use. Its rechargeable lithium-ion battery pack provides energy storage for solar self-consumption, time-based control, and backup.

Powerwall's electrical interface provides a simple connection to any home or building. Its revolutionary compact design achieves market-leading energy density and is easy to install, enabling owners to quickly realize the benefits of reliable, clean power.


## PERFORMANCE SPECIFICATIONS

| | |
|---|---|
| **AC Voltage (Nominal)** | 120/240 V |
| **Feed-In Type** | Split Phase |
| **Grid Frequency** | 60 Hz |
| **Total Energy** | 14 kWh[1] |
| **Usable Energy** | 13.5 kWh[1] |
| **Real Power, max continuous** | 5 kW (charge and discharge) |
| **Real Power, peak (10 s, off-grid/backup)** | 7 kW (charge and discharge) |
| **Apparent Power, max continuous** | 5.8 kVA (charge and discharge) |
| **Apparent Power, peak (10s, off-grid/backup)** | 7.2 kVA (charge and discharge) |
| **Maximum Continuous Current** | 24 A |
| **Maximum Output Fault Current** | 32 A |
| **Overcurrent Protection Device** | 30 A |
| **Load Start Capability** | 88 - 106 A LRA[2] |
| **Imbalance for Split-Phase Loads** | 100% |
| **Power Factor Output Range** | +/– 1.0 adjustable |
| **Power Factor Range (full-rated power)** | +/– 0.85 |
| **Internal Battery DC Voltage** | 50 V |
| **Maximum Supply Fault Current** | 10 kA |
| **Round Trip Efficiency** | 90%[1,3] |
| **Warranty** | 10 years |

[1]Values provided for 25°C (77°F), 3.3 kW charge/discharge power.
[2]Load start capability may vary.
[3]AC to battery to AC, at beginning of life.

## COMPLIANCE INFORMATION

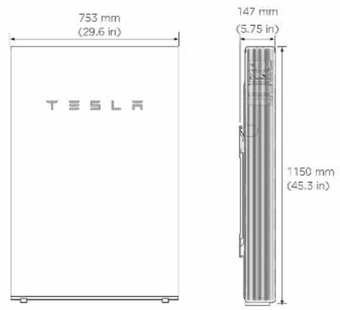
| | |
|---|---|
| **Certifications** | UL 1642, UL 1741, UL 1741 SA, UL 1741 SB, UL 1973, UL 9540, IEEE 1547-2018, UN 38.3 |
| **Grid Connection** | Worldwide Compatibility |
| **Emissions** | FCC Part 15 Class B, ICES 003 |
| **Environmental** | RoHS Directive 2011/65/EU |
| **Seismic** | AC156, IEEE 693-2005 (high) |
| **Fire Testing** | Meets the unit level performance criteria of UL 9540A |

TESLA

## MECHANICAL SPECIFICATIONS

| | |
|---|---|
| **Dimensions** | 1150 x 753 x 147 mm (45.3 x 29.6 x 5.75 in)[4] |
| **Weight** | 114 kg (251.3 lbs)[4] |
| **Mounting options** | Floor or wall mount |

[4]Dimensions and weight differ slightly if manufactured before March 2019. Contact Tesla for additional information.




## ENVIRONMENTAL SPECIFICATIONS

| | |
|---|---|
| **Operating Temperature** | –20°C to 50°C (–4°F to 122°F)[5] |
| **Operating Humidity (RH)** | Up to 100%, condensing |
| **Storage Conditions** | –20°C to 30°C (–4°F to 86°F)<br>Up to 95% RH, non-condensing<br>State of Energy (SoE): 25% initial |
| **Maximum Elevation** | 3000 m (9843 ft) |
| **Environment** | Indoor and outdoor rated |
| **Enclosure Type** | NEMA 3R |
| **Ingress Rating** | IP67 (Battery & Power Electronics)<br>IP56 (Wiring Compartment) |
| **Wet Location Rating** | Yes |
| **Noise Level @ 1m** | < 40 dBA at 30°C (86°F) |

[5]Performance may be de-rated at operating temperatures below 10°C (50°F) or greater than 43°C (109°F).



# POWERWALL
## Backup Gateway 2

The Backup Gateway 2 for Tesla Powerwall provides energy management and monitoring for solar self-consumption, time-based control, and backup.

The Backup Gateway 2 controls connection to the grid, automatically detecting outages and providing a seamless transition to backup power. When equipped with a main circuit breaker, the Backup Gateway 2 can be installed at the service entrance. When the optional internal panelboard is installed, the Backup Gateway 2 can also function as a load center.

The Backup Gateway 2 communicates directly with Powerwall, allowing you to monitor energy use and manage backup energy reserves from any mobile device with the Tesla app.

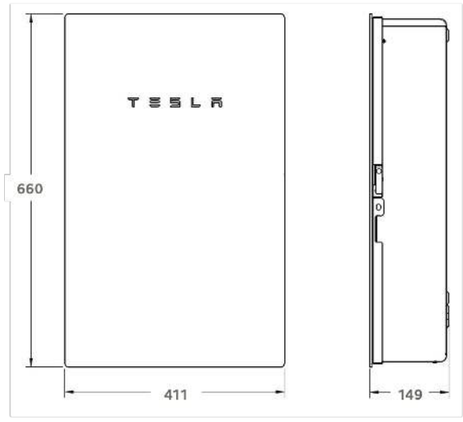

## PERFORMANCE SPECIFICATIONS

| | |
|---|---|
| **AC Voltage (Nominal)** | 120/240V |
| **Feed-In Type** | Split Phase |
| **Grid Frequency** | 60 Hz |
| **Current Rating** | 200 A |
| **Maximum Input Short Circuit Current** | 10 kA[1] |
| **Overcurrent Protection Device** | 100-200A; Service Entrance Rated[1] |
| **Overvoltage Category** | Category IV |
| **AC Meter** | Revenue accurate (+/– 0.2 %) |
| **Primary Connectivity** | Ethernet, Wi-Fi |
| **Secondary Connectivity** | Cellular (3G, LTE/4G)[2] |
| **User Interface** | Tesla App |
| **Operating Modes** | Support for solar self-consumption, time-based control, and backup |
| **Backup Transition** | Automatic disconnect for seamless backup |
| **Modularity** | Supports up to 10 AC-coupled Powerwalls |
| **Optional Internal Panelboard** | 200A 6-space / 12 circuit Eaton BR Circuit Breakers |
| **Warranty** | 10 years |

[1]When protected by Class J fuses, Backup Gateway 2 is suitable for use in circuits capable of delivering not more than 22kA symmetrical amperes.
[2]The customer is expected to provide internet connectivity for Backup Gateway 2; cellular should not be used as the primary mode of connectivity. Cellular connectivity subject to network operator service coverage and signal strength.

## MECHANICAL SPECIFICATIONS

| | |
|---|---|
| **Dimensions** | 660 mm x 411 mm x 149 mm<br>(26 in x 16 in x 6 in) |
| **Weight** | 20.4 kg (45 lb) |
| **Mounting options** | Wall mount, Semi-flush mount |




## COMPLIANCE INFORMATION

| | |
|---|---|
| **Certifications** | UL 67, UL 869A, UL 916, UL 1741 PCS<br>CSA 22.2 0.19, CSA 22.2 205 |
| **Emissions** | FCC Part 15, ICES 003 |

## 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 |

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Project Name:
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PAGE TITLE:
TESLA SPECS

PAGE #:
E03