Abbreviations 3R - NEMA 3R, Raintight (E) - Existing (N) - New A - Ampere AWG - American Wire Gauge

V - Volt

EGC - Equipment Grounding Conductor EV - Electric Vehicle EVCS - Electric Vehicle Charging Station NEC - National Electric Code

Electrical Notes

 Each ungrounded conductor of the multiwire branch circuit will be identified by phase and system per Art. 210.5
 A Nationally-Recognized Testing Laboratory shall list all equipment in compliance with Art. 110.3
 All wires shall be provided with strain relief at all entry into boxes as required by UL Listing
 All exposed metal parts shall be grounded
 All work shall comply with the AHJ or State adopted Electrical Code

Additional Notes

1. ALL WORK TO BE DONE TO THE 2019 CALIFORNIA BUILDING CODE, 2019 CALIFORNIA PLUMBING CODE, 2019 CALIFORNIA RESIDENTIAL CODE AND THE 2019 CALIFORNIA FIRE CODE.

2. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRIC CODE AS AMENDED BY THE 2019 CALIFORNIA ELECTRIC CODE.

3. SMOKE AND CARBON MONOXIDE DETECTORS REQUIRED.

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Energy Storage System at 7212 Dry Creek Rd, Healdsburg, CA 95448, US

Steven Deutsch

JB-9546234-00







YOUR HOME POWERED BY TESLA

Aerial View



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Legend



Main Panel

Powerwall and Equipment



AC Disconnect

We are excited to design your home of the future and for you to join our mission to accelerate the world's transition to sustainable energy.

The day of your installation, our team of two to three people will install your Powerwall. If you also have solar, an additional four installers could be on site.

To ensure a quick and efficient installation, clear the ground, wall space, and any key access points. Extra space is great since we may use a small dolly to move Powerwall around.

We look forward to getting started.





Meter#:	100768	8349
in Panel:	(E) 100,	Ą
onnect:	(E) 100, (N) 70A	A Sub Feed Breaker
.WG #4 Black, Red, White THWN-2 .WG #6 Green THWN-2 " Conduit		
WG #4 Black, Red, White THWN-2 WG #6 Green THWN-2 -1/4" Conduit		
Gateway:	(1)	(N) Backup Gateway 2 Tesla 1232100-00-E
oads Panel:	(1)	(N) 125A Load Center (N) 70A Main Breaker
ay 2 Busbar)		
ment to be located adjacent to Main Panel		
TISLA		
Single Line		
2/8/2021		

BACKUP LOAD CENTER	Label Location: (BLC) Per Code: NEC 408.4	CAUTION TRI POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM THIRD SOURCE IS ENERGY STORAGE SYSTEM	Label Location: (MP) Per Code: NEC 705.12.B.3
CAUTION DO NOT ADD NEW LOADS	Label Location: (BLC) Per Code: NEC 220		Label Location: (MP) Per Code:
CAUTION THIS PANEL HAS SPLICED FEED- THROUGH CONDUCTORS. LOCATION OF DISCONNECT AT ENERGY STORAGE BACKUP LOAD PANEL	Label Location: (MP) Per Code: NEC 312.8.A.3	MULTIPLE SOURCES. TOTAL RATING OF ALL OVER CURRENT DEVICES, EXCLUDING MAIN SUPPLY OVERCURRENT DEVICE, SHALL NOT EXCEED AMPACITY OF BUSBAR.	NEC 703.12.0.2.3.C
CAUTION DUAL POWER SOURCE SECOND SOURCE IS ENERGY STORAGE SYSTEM	Label Location: (MP) Per Code: NEC 705.12.B.3	NOMINAL ESS VOLTAGE:120/240VMAX AVAILABLE SHORT- CIRCUIT FROM ESS:32AARC FAULT CLEARING TIME FROM ESS:67msDATE OF	Label Location: (MP) Per Code: NEC 706.7.D
ENERGY STORAGE SYSTEM ON SITE LOCATED WITHIN LINE OF SIGHT	Label Location: (MP) Per Code:	CALCULATION:	
ENERGY STORAGE SYSTEM ON SITE LOCATED ON ADJACENT WALL	Label Location: (MP) Per Code:		
ENERGY STORAGE SYSTEM ON SITE LOCATED ON OPPOSITE WALL	Label Location: (MP) Per Code:		
ENERGY STORAGE SYSTEM ON SITE LOCATED INSIDE	Label Location: (MP) Per Code:		
		Label Set	

(AC): AC Disconnect (BLC): Backup Load Center (MP): Main Panel

${\tt POWER} \, {\mathbb W} \, {\mathbb A} \, {\mathbb L} \, {\mathbb L}$

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 kA1
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, backup, and off-grid
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.

COMPLIANCE INFORMATION

Certifications	UL 67, UL 869A, UL 916, UL 1741 PCS CSA 22.2 0.19, CSA 22.2 205
Emissions	FCC Part 15, ICES 003

MECHANICAL SPECIFICATIONS

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

TESLA



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

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 ¹	14 kWh
Usable Energy ¹	13.5 kWh
Real Power, max continuous ²	5 kW (charge and discharge
Real Power, peak (10s, off-grid/backup) ²	7 kW (charge and discharge
Apparent Power, max continuous	5.8 kVA (charge and discha
Apparent Power, peak (10s, off-grid/backup)	7.2 kVA (charge and discha
Maximum Supply Fault Current	10 kA
Maximum Output Fault Current	32 A
Overcurrent Protection Device	30 A
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
Round Trip Efficiency ^{1,3}	90%
Warranty	10 years

¹Values provided for 25°C (77°F), 3.3 kW charge/discharge power. ²In Backup mode, grid charge power is limited to 3.3 kW. ³AC to battery to AC, at beginning of life.

COMPLIANCE INFORMATION

Certifications	UL 1642, UL 1741, UL 1973, UL 9540, IEEE 1547, 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)



MECHANICAL SPECIFICATIONS

Dimensions¹ 1150 mm x 755 mm x 147 mm (45.3 in x 29.6 in x 5.75 in) Weight¹ 114 kg (251.3 lbs) Mounting options Floor or wall mount ¹Dimensions and weight differ slightly if manufactured before March 2019. Contact Tesla for additional information. 753 mm 147 mm ge) (29.6 in) (5.75 in) ge) arge) arge) TZSLÄ 1150 mm (45.3 in) ENVIRONMENTAL SPECIFICATIONS **Operating Temperature** -20°C to 50°C (-4°F to 122°F) **Recommended Temperature** 0°C to 30°C (32°F to 86°F) Operating Humidity (RH) Up to 100%, condensing -20°C to 30°C (-4°F to 86°F) **Storage Conditions** Up to 95% RH, non-condensing State of Energy (SoE): 25% initial **Maximum Elevation** 3000 m (9843 ft) Environment Indoor and outdoor rated Enclosure Type NEMA 3R IP67 (Battery & Power Electronics) Ingress Rating IP56 (Wiring Compartment) Wet Location Rating Yes Noise Level @ 1m < 40 dBA at 30°C (86°F)