ABBREVIATIONS ELECTRICAL NOTES AMPERE THIS SYSTEM IS GRID-INTERTIED VIA A ALTERNATING CURRENT UL-LISTED POWER-CONDITIONING INVERTER. BLDG BUILDING A NATIONALLY-RECOGNIZED TESTING CONC CONCRETE LABORATORY SHALL LIST ALL EQUIPMENT IN DIRECT CURRENT COMPLIANCE WITH ART, 110.3. EQUIPMENT GROUNDING CONDUCTOR WHERE ALL TERMINALS OF THE DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION. **EXISTING** A SIGN WILL BE PROVIDED WARNING OF THE ELECTRICAL METALLIC TUBING HAZARDS PER ART. 690.17. FIRE SET-BACK EACH UNGROUNDED CONDUCTOR OF THE GALV GALVANIZED MULTIWIRE BRANCH CIRCUIT WILL BE IDENTIFIED BY GROUNDING ELECTRODE CONDUCTOR PHASE AND SYSTEM PER ART. 210.5. GND GROUND CIRCUITS OVER 250V TO GROUND SHALL HOT DIPPED GALVANIZED **CURRENT** COMPLY WITH ART. 250.97, 250.92(B). CURRENT AT MAX POWER DC CONDUCTORS EITHER DO NOT ENTER SHORT CIRCUIT CURRENT BUILDING OR ARE RUN IN METALLIC RACEWAYS OR KILOVOLT AMPERE ENCLOSURES TO THE FIRST ACCESSIBLE DC kW KILOWATT DISCONNECTING MEANS PER ART. 690.31(E). LOAD BEARING WALL ALL WIRES SHALL BE PROVIDED WITH STRAIN MINIMUM RELIEF AT ALL ENTRY INTO BOXES AS REQUIRED BY UL LISTING. NEW NEUT NEUTRAL MODULE FRAMES SHALL BE GROUNDED AT THE NOT TO SCALE UL-LISTED LOCATION PROVIDED BY THE NTS ON CENTER MANUFACTURER USING UL LISTED GROUNDING PROPERTY LINE HARDWARE. POINT OF INTERCONNECTION MODULE FRAMES, RAIL, AND POSTS SHALL BE BONDED WITH EQUIPMENT GROUND CONDUCTORS. **PHOTOVOLTAIC** SCH SCHEDULE STAINLESS STEEL STANDARD TESTING CONDITIONS **TYPICAL** UNINTERRUPTIBLE POWER SUPPLY **VOLT** VOLTAGE AT MAX POWER VOLTAGE AT OPEN CIRCUIT Voc NEMA 3R, RAINTIGHT **LICENSE GENERAL NOTES** ALL WORK SHALL COMPLY WITH THE 2015 IBC BLDG CL KB-01: ROC243771 AND 2006 IRC. ELEC CL K-11: ROC 245450 ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2014 NATIONAL ELECTRIC CODE. MODULE GROUNDING METHOD: ZEP SOLAR AHJ: Paradise Valley UTILITY: Arizona Public Service Company JOB NUMBER: JB-8528160 00 CONFIDENTIAL - THE INFORMATION HEREIN WILLIAM FOSTER CONTAINED SHALL NOT BE USED FOR THE BENEFIT OF ANYONE EXCEPT TESLA INC., NOR MOUNTING SYSTEM: 5921 E CHENEY DR SHALL IT BE DISCLOSED IN WHOLE OR IN ZS Ramp Foot PART TO OTHERS OUTSIDE THE RECIPIENT'S PARADISE VALLEY, AZ 85253

MODULES:

INVERTER:

SolarCity Standard #SC325

(24) Delta # Solivia 6.6 TL

ORGANIZATION, EXCEPT IN CONNECTION WITH

THE SALE AND USE OF THE RESPECTIVE

PERMISSION OF TESLA INC.

TESLA EQUIPMENT, WITHOUT THE WRITTEN

JURISDICTION NOTES

PV ARRAY IN COMPLIANCE WITH OPEN SPACE CRITERIA.

- EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- GROUND WIRE MUST BE CONTINUOUS AND INSTALLED TO ALLOW FOR PANEL REMOVAL WITHOUT DISRUPTING CONTINUITY. ALL MODULE GROUND CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH NEC 690.4(C)
- 3. FOLLOW MANUFACTURERS SUGGESTED INSTALLATION PRACTICES AND WIRING SPECIFICATIONS.
- WIRES SHALL BE RATED AND LABELED "SUNLIGHT RESISTANT" WHERE EXPOSED TO AMBIENT CONDITIONS.

PROJECT NARRATIVE:

This solar photovoltaic system installation at 5921 E Cheney Dr consists of 24 modules on two arrays facing south with an azimuth of 190 degrees. The ZS ramp mounting hardware will be used and will be painted black to match the module frames. Panels will not be visible from the front home view. All parapets are existing and both arrays will be at or below the level of the parapets. One inverter will be used and it will be located in the garage. Two Tesla Powerwalls will also be installed in the garage for energy storage. The photovoltaic meter and additional panels on the exterior of the home will be painted to match the color of the home.

Colby West

a 1/31/2018

TESLA

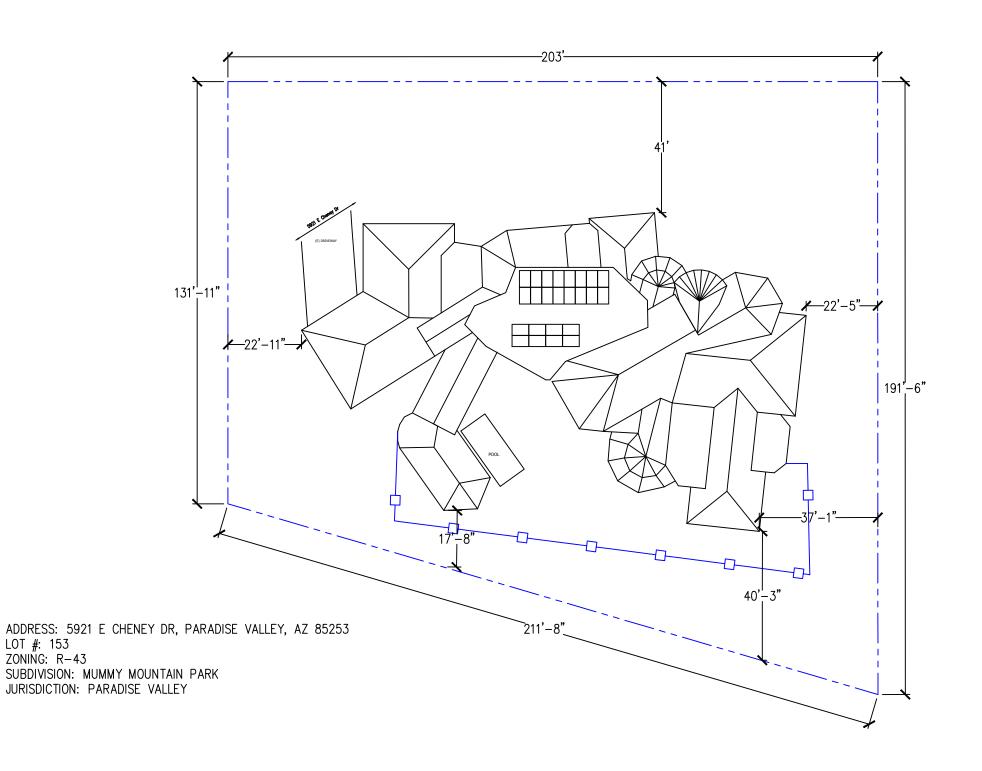


7.8 KW DC ROOF MOUNT PV ARRAY

6.6 KW (AC NAMEPLATE) PV ARRAY

COVER SHEET

PAGE NAME: 27.0 kWh ENERGY STORAGE SYSTEM



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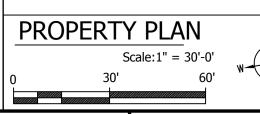
LOT #: 153 ZONING: R-43

JOB NUMBER: JB—8528160	00
MOUNTING SYSTEM: ZS Ramp Foot	
MODULES: SolarCity Standard #SC325	
INVERTER: (24) Delta # Solivia 6.6 TL	

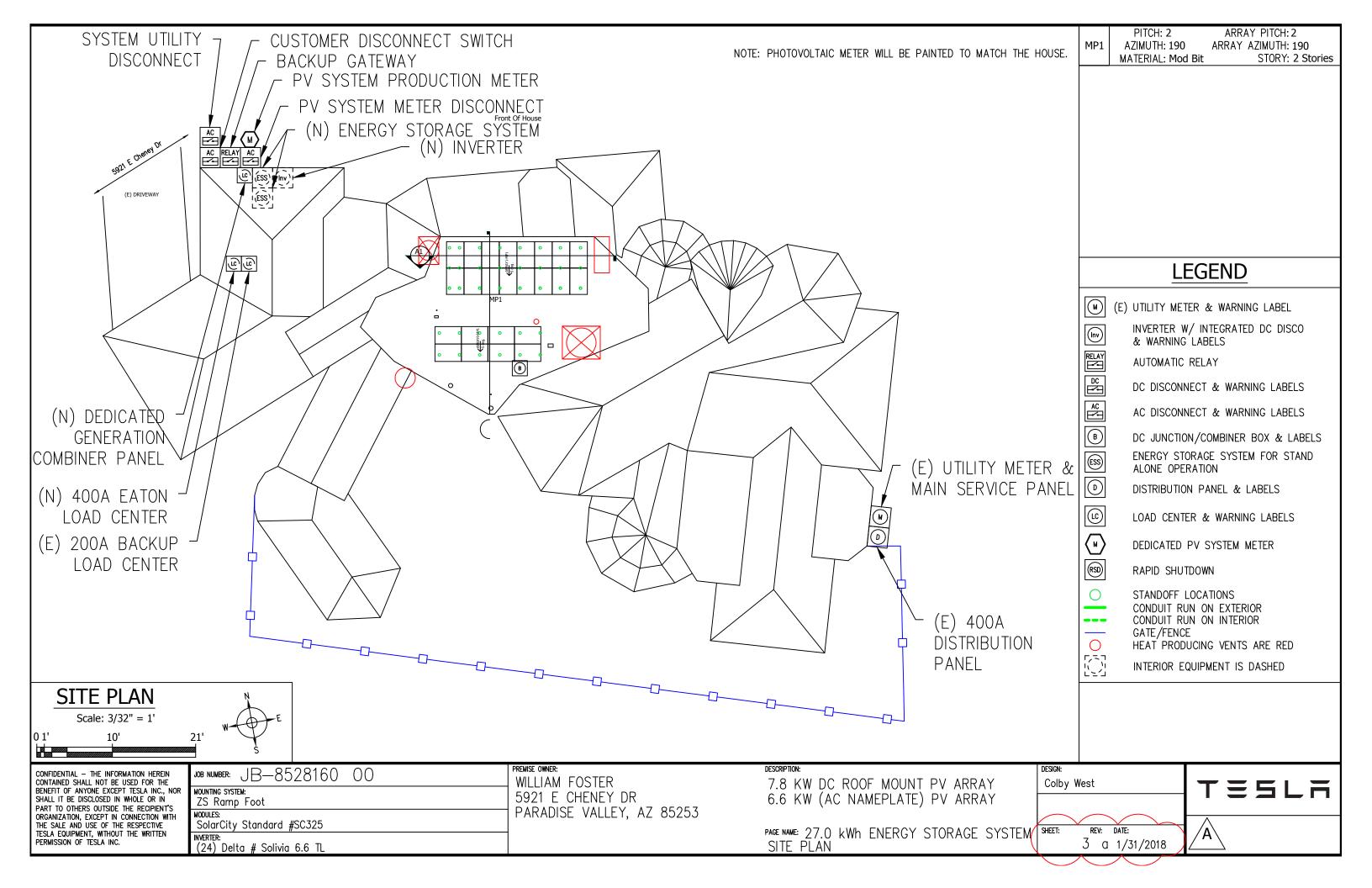
PREMISE OWNER: WILLIAM FOSTER 5921 E CHENEY DR PARADISE VALLEY, AZ 85253

7.8 KW DC ROOF MOUNT PV ARRAY 6.6 KW (AC NAMEPLATE) PV ARRAY

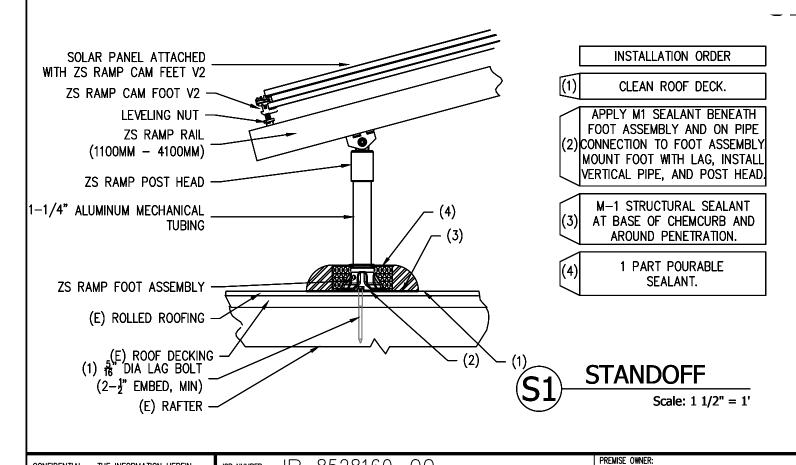
PAGE NAME: 27.0 kWh ENERGY STORAGE SYSTEM SHEET:
PROPERTY PLAN



Colby West TESLA REV: DATE: a 1/31/2018



UPLIFT CALCULATIONS



			D	ESIGN S	SUMMAR	Y		01.31.2018 Version #72.1 Job# 8528160
			Job	site Specific	Design Criteria	1		
		Design Code		7./		ASCE 7-10		
	Im	portance Factor		1		1.0		
		nate Wind Speed		V-Ult		115 mph		Fig. 1609A
		posure Category		A 2-72-		C		Section 26.7
		ound Snow Load		pg				ASCE Table 7-
	, _,			FS				
	MP Name	MP1	MP	Specific Des	ign Information			
_	Roofing	Built Up / Modified Roofing						
Ĭ	Standoff	ZS Ramp Foot		i		3		
Design Info	Pitch	2°						
Si	SL/RLL: PV	_				0		
ŏ	SL/RLL: Non-PV	20.0 psf					-	*
			St	andoff Spaci	ng and Layout			
	MP Name	MP1						
abe	X-Spacing	72"						
lsc	X-Cantilever	24"					-	
Landscape	Y-Spacing	72"						
_	Y-Cantilever	24"						
Ħ	X-Spacing	48"						
Portrait	X-Cantilever	21"					2	
Po	Y-Spacing	72" 24"					7	
=	Y-Cantilever Layout	Not-Staggered				*	8	8
		Diffication and the second						

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JOB NUMBER: JB—8528160 00

MOUNTING SYSTEM:
ZS Ramp Foot

MODULES:
SolarCity Standard #SC325

INVERTER:
(24) Delta # Solivia 6.6 TL

WILLIAM FOSTER
5921 E CHENEY DR
PARADISE VALLEY, AZ 85253

7.8 KW DC ROOF MOUNT PV ARRAY 6.6 KW (AC NAMEPLATE) PV ARRAY

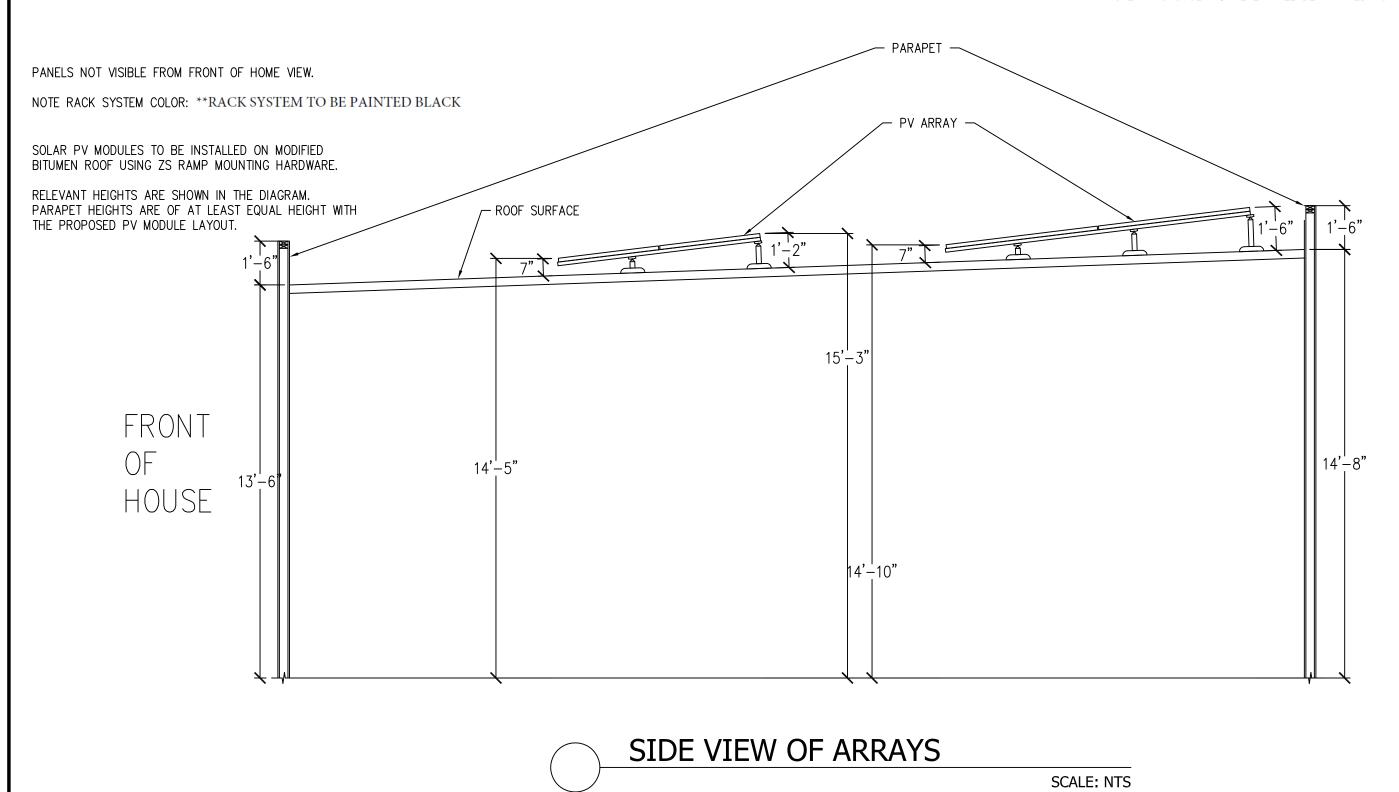
PAGE NAME: 27.0 kWh ENERGY STORAGE SYSTEM STRUCTURAL DETAILS & UPLIFT CALCS

DESIGN:
Colby West

T

SHEET: REV: DATE:

4 a 1/31/2018



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JOB NUMBER: JB-8528160 00	
MOUNTING SYSTEM: ZS Ramp Foot]
MODULES: SolarCity Standard #SC325	
INVERTER: (24) Delta # Solivia 6.6 TL	

PREMISE OWNER: WILLIAM FOSTER 5921 E CHENEY DR PARADISE VALLEY, AZ 85253

7.8 KW DC ROOF MOUNT PV ARRAY 6.6 KW (AC NAMEPLATE) PV ARRAY

Colby W PAGE NAME: 27.0 KWh ENERGY STORAGE SYSTEM SHEET:
BUILDING ELEVATION REV: DATE: 5 a 1/31/2018

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AERIAL IMAGE OF HOME HOME VIEW FROM LOCATION X HOME VIEW FROM LOCATION Y



HOME VIEW FROM LOCATION Z

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JOB NUMBER: JB—8528160	00
MOUNTING SYSTEM: ZS Ramp Foot	
MODULES: SolarCity Standard #SC325	
INVERTER: (24) Delta # Solivia 6.6 TL	

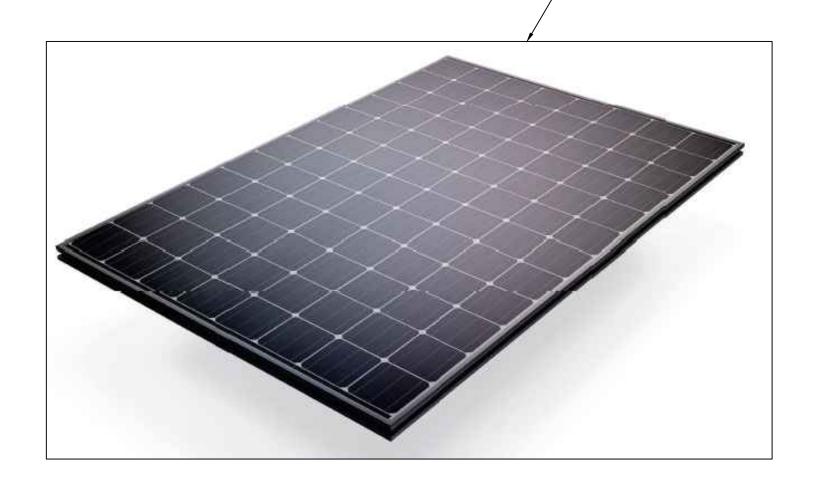
PREMISE OWNER: WILLIAM FOSTER 5921 E CHENEY DR PARADISE VALLEY, AZ 85253

7.8 KW DC ROOF MOUNT PV ARRAY 6.6 KW (AC NAMEPLATE) PV ARRAY

PAGE NAME: 27.0 KWh ENERGY STORAGE SYSTEM SHEE PROPERTY IMAGES

SIGN:	
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BLACK FRAME, SOLAR CELLS, AND BACKSHEET (SEE CUTSHEET FOR SPECS)



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TESLA EQUIPMENT, WITHOUT THE WRITTEN
PERMISSION OF TEST IN INC.

JOB NUMBER: JB—8528160 00	WIL
MOUNTING SYSTEM:	59
ZS Ramp Foot	00
MODULES:	PA
SolarCity Standard #SC325	
INVERTER:	
(24) Delta # Solivia 6.6 TL	

WILLIAM FOSTER 5921 E CHENEY DR PARADISE VALLEY, AZ 85253

7.8 KW DC ROOF MOUNT PV ARRAY 6.6 KW (AC NAMEPLATE) PV ARRAY

PAGE NAME: 27.0 kWh ENERGY STORAGE SYSTEM MODULE IMAGES

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10 a 1/31/2018	/



Solar Inverters

Transformerless (TL): 3.8 kW, 5.2 kW, 6.6 kW, 7.6 kW

- · Wide Operating Voltage Range: 85 ~ 550V
- · Wide Operating Temperature Range: -13 ~ 158°F (-25 ~ 70°C)
- · High CEC Efficiency: 97.5%
- · Integrated AFCI (Arc Fault Circuit Interruption)
- · NEMA 4X plus Salt Mist Corrosion Protection
- · Natural Convection Cooling
- Dual MPPT (5.2kW / 6.6kW / 7.6kW)
- · Compact and Lightweight
- · UL 1741 / IEEE 1547 / IEEE 1547.1 / CEC Listed /UL 1699B(Type 1) / NEC 690.11





Delta Solar Inverters Datasheet for SolarCity

	SOLIVIA 3.0 TL	SOLIVIA 3.8 TL	SOLIVIA 5.2 TL	SOLIVIA 6.6 TL	SOLIVIA 7.6 TL		
NPUT (DC)							
Max. System Voltage			600 V				
Nominal Voltage			380 V				
Operating Voltage Range			85 ~ 550 V				
Full Power MPPT Range			200 - 500 V				
Max. Usable Current	18.0 A	20.0 A		20.0 A per MPP tracker			
Max. Short Circuit Current @ STC			25.0 A per MPP tracker				
Max. Allowable Imbalance Power		-	4200 W	5000 W	5600 W		
Allowed DC Loading Ratio			1.5				
OC Disconnect			Internal				
MPP Tracker		1		2			
otal Input Strings Available		2		4			
OUTPUT (AC)							
Nominal Power	3000 W	3800 W	5200 W	6600 W	7600 W		
Max. Continuous Power	3000 W @ 208 V /	3300 W @ 208 V /	5200 W @ 208 V /	6600 W @ 208 V /	6600 W @ 208 V /		
	3000 W @ 240 V	3800 W @ 240 V	5200 W @ 240 V	6600 W @ 240 V	7600 W @ 240 V		
oltage Range			28 V @ 208 V / 211 ~ 264 V				
Iominal Current	14.4 A @ 208 V / 12.5 A @ 240 V	15.8 A @ 208 V / 15.8 A @ 240 V	24.0 A @ 208 V / 21.6 A @ 240 V	31.7 A @ 208 V / 27.5 A @ 240 V	31.7 A @ 208 V / 31.7 A @ 240 V		
lominal Frequency			60 Hz				
requency Range			59.3 ~ 60.5 Hz				
djustable Frequency Range			57.0 ~ 63.0 Hz				
light Consumption			< 1.5 W				
otal Harmonic Distortion @ Nominal Power		<3%					
ower Factor @ Nominal Power		> 0.99					
djustable Power Factor Range		0.85i ~ 0.85c					
courtic Noise Emission		<50 db(A) @ lm					
SENERAL SPECIFICATION							
fax. Efficiency		98%					
EC Efficiency	97.5% @ 208V / 97.5% @ 240V						
perating Temperature Range	-13 ~ 158°F (-25~70°C) derating above 122°F (50°C)						
torage Temperature Range	-40 ~ 185°F (-40 ~ 85°C)						
lumidity	0 ~ 100%						
Max. Operating Altitude	2000m above sea level						
MECHANICAL DESIGN							
Size L x W x D inches (L x W x D mm)		495 x 401 x 216 mm)	26.8 x	15.8 x 8.5 in (680 x 401 x 2	16 mm)		
Veight	43.0 lbs	(19.5 kg)		65.0 lbs (29.5 kg)			
Cooling			Natural Convection				
C Connectors		•	oring terminals in connection I				
Compatible Wiring Guage in AC			WG 6 Copper (According to				
OC Connectors	2 pairs of spring termi	inals in connection box		of spring terminals in connec	ction box		
Compatible Wiring Guage in DC		AWG 12 ~ A	AWG 6 Copper (According to	NEC 690.8)			
communication Interface			ZigBee				
Display	3 LEDs, 4-Line LCD						
inclosure Material			Diecast Aluminum				
STANDARDS / DIRECTIVES							
nclosure Protection Rating			MA 4X, IEC 60068-2-11 Salt				
Safety	UL 1741 Second Edition, CSA C22.2 No.107.1-01						
W Approval	UL 1998						
round-Fault Protection		NEC 690.35, UL 1741 CRD					
nti-Islanding Protection			IEEE 1547, IEEE 1547.1				
MC			FCC part 15 Class B				
FCI			JL 1699B (Type 1), NEC 690.				
V Rapid Shutdown		UL 1741 CRI	D PVRSS, NEC 690.12 (with	SMART RSS)			
ntegrated Meter		A	NSI C12.1 (meet 1% Accurac	cy)			
•	California Rule 21, HECO Compliant, IEEE1547						
Regulation of Grid Support		California	a Rule 21, HECO Compliant,	IEEE1547			

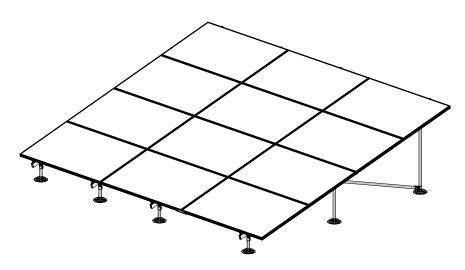
Delta Products Corporation, Inc. 46101 Fremont Blvd, Fremont, CA 94538 Sales Email: inverter.sales@deltaww.com Support Email: inverter.support@deltaww.com Sales Hotline: +1-877-440-5851 or +1-626-369-8021 Support Hotline: +1-877-442-4832 Support (Intl.): +1-626-369-8019

Monday to Friday from 7 am to 5 pm PST (apart from Holidays)



Date last exported: October 14, 2016 3:00 PM





ZS Ramp Array



Description

PV Mounting Solution for Residential Low-Slope Roofs



Document # 800-1747-001 Rev K

Specifications

- Tilt Angle: 0-15 degrees
- Designed for low slope roofs
- Corrosion resistant materials (Aluminum, Stainless Steel)
- ZS Ramp has a UL 1703 Class "A" system level fire rating when installed with modules from any manufacturer with a Type 1 or Type 2 fire classification.
- UL listed to UL 2703



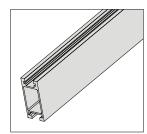
Components

Cam Foot V2



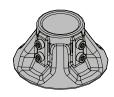
Part No. 850-1564 UL listed to UL 2703

Rail



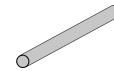
Part No. 850-1568 850-1567 850-1566 and 850-1565 UL listed to UL 2703

Base Foot



Part No. 850-1563 UL listed to UL 2703

Mechanical Tubing (MT)



Part No. 850-1583 UL listed to UL 2703 1.51" Outer Diameter

Post Mount



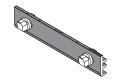
Part No. 850-1561 UL listed to UL 2703

Cross Brace Assembly



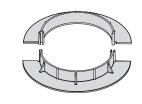
Part No. 850-1636 UL listed to UL 2703

Interlock



Part No. 850-1388 or 850-1613 UL listed to UL 2703

Sealant Ring



Part No. 850-1638

Splice Assembly, Ramp



Part No. 850-1635 UL listed to UL 2703

DC Wire Clip



Part No. 850-1509 UL listed to UL 1565

Home Run Wire Clip



Part No. 850-1510 UL listed to UL 1565

Ground Zep



Part No. 850-1511 UL listed to UL 467 and UL 2703

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Page: 1 of 2

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Document # 800-1747-001 Rev K Page: 2 of 2 Date last exported: October 14, 2016 3:00 PM

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, load shifting, 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	5 kW (charge and discharge)
Real Power, peak (10s)	7 kW (discharge only)
Apparent Power, max continuous	5.8 kVA (charge and discharge)
Apparent Power, peak (10s)	7.2 kVA (discharge only)
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 ^{1,2}	90%
Warranty	10 years

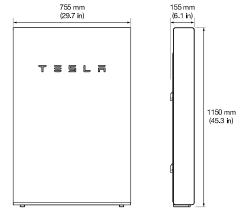
¹Values provided for 25°C (77°F), 3.3 kW charge/discharge power. ²AC to battery to AC, at beginning of life.

COMPLIANCE INFORMATION

Certifications	UL 1642, UL 1741, UL 1973, UL 9540, 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

Dimensions	1150 mm x 755 mm x 155 mm (45.3 in x 29.7 in x 6.1 in)
Weight	125 kg (276 lbs)
Mounting options	Floor or wall mount



ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Operating Humidity (RH)	Up to 100%, condensing
Storage Conditions	−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 Type	NEMA 3R
Ingress Rating	IP67 (Battery & Power Electronics) IP56 (Wiring Compartment)
Wet Location Rating	Yes
Pollution Degree Rating	PD3
Noise Level @ 1m	< 40 dBA at 30°C (86°F)

TESLA

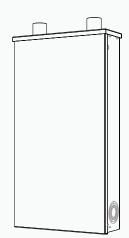
POWERWALL

Backup Gateway

The Backup Gateway for Tesla Powerwall provides energy management and monitoring for solar self-consumption, load shifting, and wholehome or partial-home backup.

The Backup Gateway controls connection to the grid, automatically detecting outages and providing a seamless transition to backup power. When equipped with a circuit breaker, the Backup Gateway can be installed at the service entrance.

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



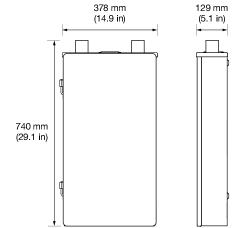
PERFORMANCE SPECIFICATIONS

AC Voltage (Nominal)	230 V, 120/240 V
Feed-In Type	Single & Split Phase
Grid Frequency	50 and 60 Hz
Disconnect Current	200 A
Maximum Input Short Circuit Current	10 kA
Overcurrent Protection Device ¹	100-200 A; Service Entrance Rated
Overvoltage Category	Category III
AC Meter	Revenue grade (+/- 1%)
Connectivity	Ethernet, Cellular (3G), Wi-Fi
User Interface	Tesla App
Operating Modes	Support for solar self-consumption, load shifting, and backup
Backup Operation	Automatic disconnect for seamless backup transition
Modularity	Supports up to 10 AC-coupled Powerwalls
Warranty	10 years

¹Circuit breaker required for installation at service entrance.

MECHANICAL SPECIFICATIONS

Dimensions	740 mm x 378 mm x 129 mm
	(29.1 in x 14.9 in x 5.1 in)
Weight	16.4 kg (36 lbs)
Mounting options	Wall mount



COMPLIANCE INFORMATION

Certifications	UL 1642, UL 1741, IEC 62109-1, CSA C22.2.107.1
Grid Connection	Worldwide Compatibility
Emissions	FCC Part 15 Class B, ICES 003, IEC 61000-6-3, EN 55024, EN 301489-1, EN 301489-7, EN 301489-17
Environmental	RoHS Directive 2011/65/EU, WEEE Directive 2012/19/EU, Battery Directive 2006/66/EC REACH Regulation
Seismic	AC156, IEEE 693-2005 (high)

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
Ingress Rating	IP44

TESLACOM/ENERGY
2017-08-07
TESLACOM/ENERGY

(5.	0	
in x 14.9 in x 5.1 in kg (36 lbs) mount 129 (5.	٧S	
129 (5.	78 mm x 129 m	nm
129 (5.		
(5.		
	129 m (5.1 iı	nm in) →
		J

More power,



With a sunlight to electricity conversion efficiency of over 19.4% the panel ranks amongst the highest in the industry. That means our panels can harvest more energy from the sun, which means it takes fewer of our panels to power your home. Plus, they generate more power output during the hottest times of the day, even in warmer climates.

More power per panel

Our 325W panel generates 20% more power than a standard 270W panel.

More energy every year

More yearly energy (kWh) compared to other panels as they perform better in the heat.

Outstanding durability

With more than 20 additional tests performed beyond what is currently mandated, these panels far exceed industry standards.

More layers, more power

Manufactured by Panasonic for SolarCity, the panel uses Heterojunction cell technology, which adds a layer of thin film silicon on top of high efficiency cyrstalline silicon.

Leading warranty

Our panels rank among the best in warranty coverage, with workmanship that extends to 15 years.











ELECTRICAL AND MECHANICAL CHARACTERISTICS

ELECTRICAL DATA

Max. power (Pmax) [W]	325
Max. power voltage (Vmp) [V]	57.6
Max. power current (Imp) [A]	5.65
Open circuit voltage (Voc) [V]	69.6
Short circuit current (Isc) [A]	6.03
Max. over current rating [A]	15
Power tolerance [%]*	+5/-0
Max. system voltage [V]	600
Solar Panel efficiency [%]	19.4

Note: Standard Test Conditions: Air mass 1.5; Irradiance = 1000W/m²; cell temp. 25°C

*Maximum power at delivery. For limited warranty conditions, please check

our limited warranty document.

TEMPERATURE CHARACTERISTICS

Temperature (NOCT) [°C]	44.0
Temp. coefficient of Pmax [%/°C]	-0.29
Temp. coefficient of Voc [%/°C]	-0.25
Temp. coefficient of lsc [%/°C]	0.03

AT NOCT (NORMAL OPERATING CONDITIONS)

Max. power (Pmax) [W]	246.0
Max. power voltage (Vmp) [V]	54.2
Max. power current (Imp) [A]	4.54
Open circuit voltage (Voc) [V]	66.0
Short circuit current (Isc) [A]	4.85

Note: Normal Operating Cell Temp.: Air mass 1.5; Irradiance = $800W/m^2$ Air temperature 20°C; wind speed 1 m/s

AT LOW IRRADIANCE (20%)

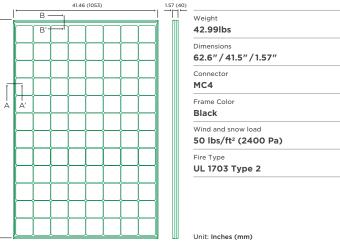
Max. power (Pmax) [W]	62.0
Max. power voltage (Vmp) [V]	55.7
Max. power current (Imp) [A]	1.11
Open circuit voltage (Voc) [V]	65.1
Short circuit current (Isc) [A]	1.21

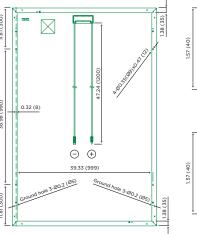
Note: Low irradiance: Air mass 1.5; Irradiance = 200W/m²; cell temp. = 25°Cvv

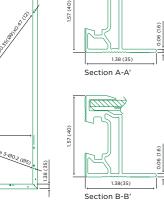
LIMITED	Power output:	10 years (90% of Pmin)
WARRANTY		25 years (80% of Pmin)
	Workmanship:	15 years
MATERIALS	Cell material:	5 inch photovoltaic cells
	Glass material:	AR coated tempered glass
	Frame materials:	Black anodized aluminium
	Connectors type:	MC4

⚠ CAUTION! Please read the installation manual carefully before using the products.

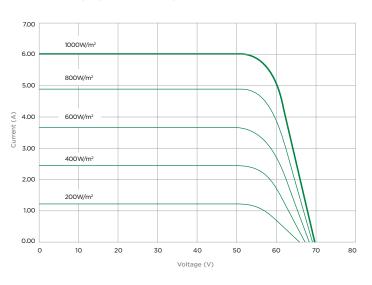
MECHANICAL DATA







DEPENDENCE ON IRRADIANCE



Panels are manufactured by Panasonic to the specification of SolarCity. Panels are only warranted by Panasonic if the panels are included in a PV system sold by SolarCity or Tesla. SolarCity and Tesla make no warranties related to the panels, which are sold as-is. SolarCity will handle any warranty claims on behalf of any purchaser.

