

Job 604008 Sheet of 1 11/1/2018 Calculated b Daniel Wise Date Checked by Glare Study Project name: Jim Guzinski Residence Solar Installation Location: Orland Park, IL Installation Azimuth: 118; 208 Installation Slope 26 deg Installation Height 22 ft above grade Grade elevation: 0 ft

The proposed solar collectors are equipped with an anti-reflective coating that reflects only about 10% of incident sunlight, so any glare effects will be minimal. In addition, properties more distant from the array will be more obstructed and will be decreased in intensity due to scattering by the atmosphere. Houses across the street have obstructed

Location	Azimuth n (deg)	(1) Sun Azim Reqd for Reflection (deg)	Distance Away (ft)	Elevation (ft)	(2) Elevation Angle (deg)	Sun Angle Abv Horiz Reqd for Reflection (deg)
Installati	on 217	~	- 20	22	-	
Building 3	1 12	422	152	0	7.556089644	139.5560896
Building 2	2 45	389	140	0	6.952316038	138.952316
Building 3	3 68	366	193	0	9.615432931	141.6154329
Building 4	4 160	274	82	0	4.018374919	136.0183749
Building 5	5 172	262	144	0	7.153644057	139.1536441
Building (5 195	239	110	0	5.43925995	137.43926
Building 7	7 224	210	108	0	4.624448954	136.624449
1	10	40		Glare		

Sun Azim (1) Min Sun Elev Max Sun Elev Sun Elev. (3) Reflection 12 134.7 Building 1 10 66 No Building 2 45 17 69 138.4 No 68 23 Building 3 72 137.4 No Building 4 160 10 66 134.7 No 172 Building 5 17 69 138.4 No Building 6 195 23 72 137.4 No Building 7 224 136.9 No

(1) = Installation Azi + (installation Azi -Building of Concern Azimuth)

(2) = Vertical Angle Between Installation and Building of Concern due to Elevation Difference

(3) = (90 - Installation Slope) x 2 + Elevation Angle

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JOB NUMBER: JB—604008 00

MOUNTING SYSTEM:
ZS Comp V4 w Flashing—Insert

MODULES:
(36) SC Std SC315B2

INVERTER:
Multiple Inverters

CUSTOMER:

JIM GUZINSKI
8917 WHEELER DR
ORLAND PARK, IL 60462

11.34 KW PV ARRAY

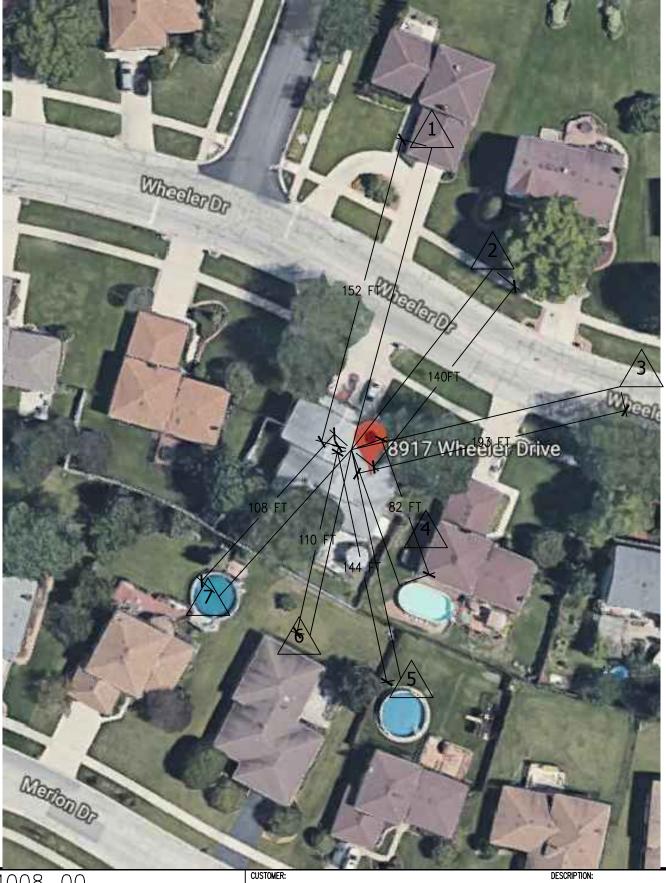
Christian Dalsgaard

TESLA

(3)

PAGE NAME:
GLARE STUDY

SHEET: REV: DATE: 2 d 11/2/2018



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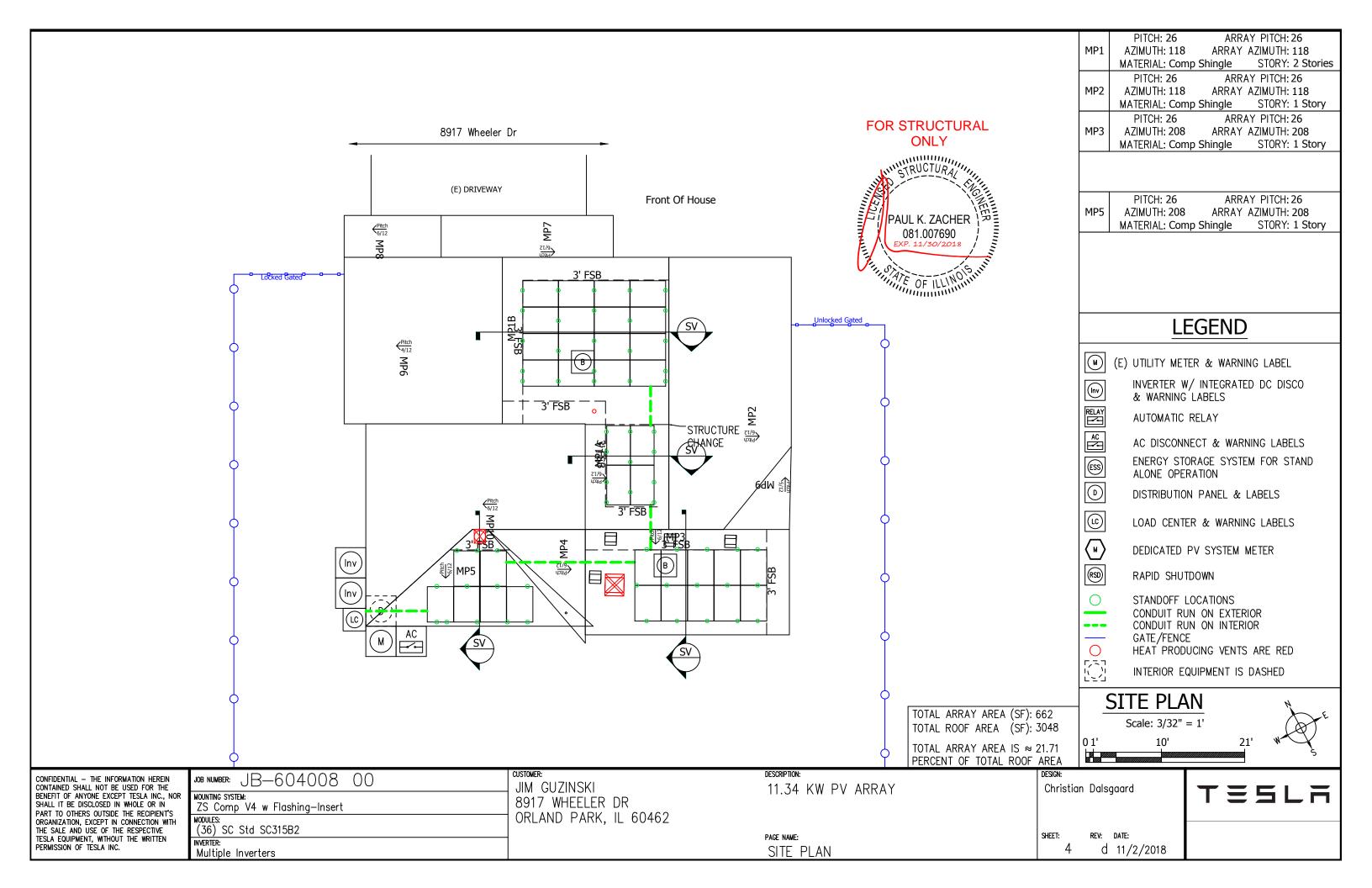
CUSTOMER:

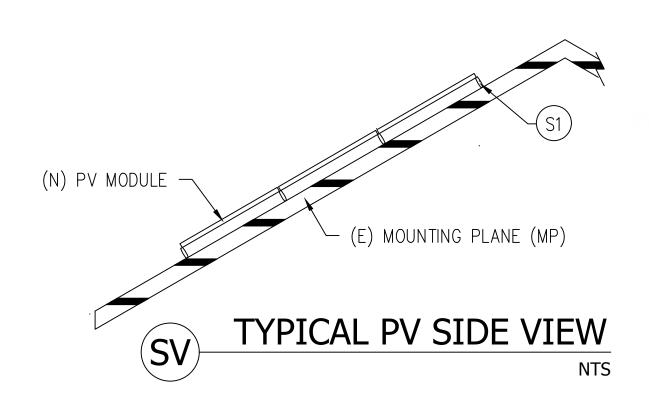
JIM GUZINSKI
8917 WHEELER DR
ORLAND PARK, IL 60462

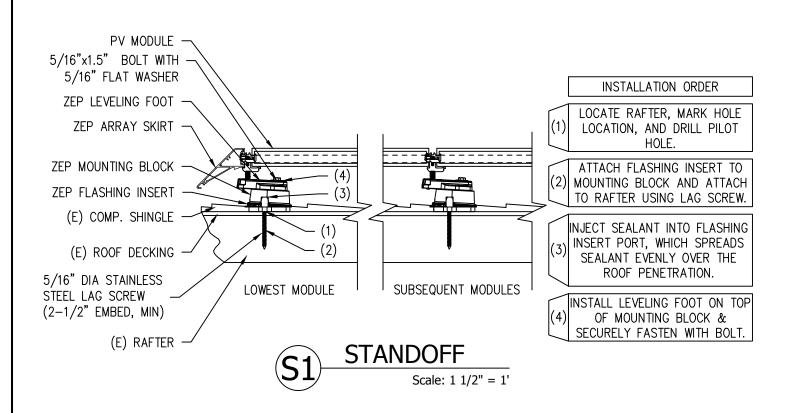
11.34 KW PV ARRAY

PAGE NAME: PROPERTY PLAN Christian Dalsgaard

SHEET: REV: DATE: 3 d 11/2/2018 TESLA







FOR ROOF ATTACHMENT ONLY



DESIGN SUMMARY

08.21.2018 Version #74.1 Job# 604008

Jobsite Specific Design Criteria					
	Design Code		ASCE 7-10		
	Importance Factor	1 1	1.0	r	
	Ultimate Wind Speed	V-Uit	115 mph	Fig. 1609A	
	Exposure Category		С	Section 26.7	
	Ground Snow Load	pg	30.0 psf	ASCE Table 7-1	

	MP Specific Design Information							
	MP Name	MP1	MP3	MP5				
Γ.	Roofing	Comp Roof	Comp Roof	Comp Roof				
£	Standoff	Comp Havet SRT	Cump Houst SRT	Comp House SRV				
5	Pitch	26 ⁻	26.	26				
l ë	SL/RLL: PV	30.0 psf	30.0 psf	30.0 psf				
å	SL/RLL: Nos-PV	30.0 psf	30.0 psf	30.0 psf				

Standoff Spacing and Layout											
	MP Name	MP1	MP3	MP5							
	X-Spacing	48"	48"	48"							
ě	X-Cantilever	24"	24"	24"							
ě	Y-Spacing	41"	41"	41"							
5	Y-Cantilever	NA NA	NA	NA NA							
	X-Spacing	48"	48"	48"							
ē	X-Cantilever	20"	20"	20"							
ŧ	Y-Spacing	62"	62"	62"							
a.	Y-Cantilever	NA	NA	NA NA							
	Layout	Staggered	Staggered	Staggered							
	X and Y an	e maximums that ar	e alv ays relative to	X and Y are maximums that are always relative to the structure framing that supports the PV. X is across rafters and Y is along rafters.							

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JOB NUMBER: JB—604008 00
MOUNTING SYSTEM: ZS Comp V4 w Flashing—Insert
MODULES: (36) SC Std SC315B2
INVERTER: Multiple Inverters

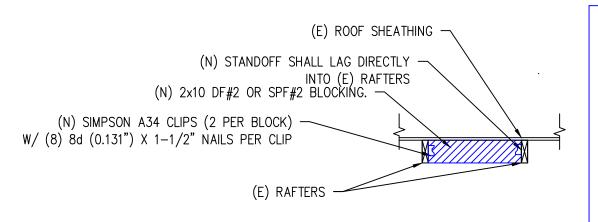
CUSTOMER: JIM GUZINSKI 8917 WHEELER DR ORLAND PARK, IL 60462

11.34 KW PV ARRAY

PAGE NAME: UPLIFT CALCULATIONS

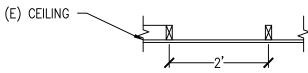
Christian Dalsgaard

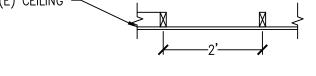
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INSTALLATION NOTES:

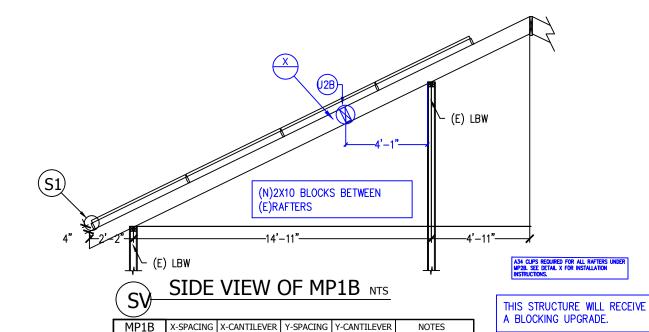
- 1. CUT (N) BLOCKING TO FIT TIGHT BETWEEN (E) RAFTERS AND KEEP FLUSH TO ROOF SHEATHING. ENSURE THERE ARE NO GAPS BETWEEN MEMBERS.
- 2. INSTALL (N) BLOCKING WITH TWO A34 CLIPS, ONE AT EACH END OF BLOCKING. 3. NAIL A34 CLIPS TO EXISTING RAFTERS WITH (8) 8D (0.131") X 1.5" NAILS, FILLING ALL HOLES. ENSURE ALL NAILS ARE LOCATED AWAY FROM EDGE OF MEMBERS TO AVOID SPLITTING WOOD.
- * INSTALL BLOCKING BETWEEN ALL RAFTERS OF MP1

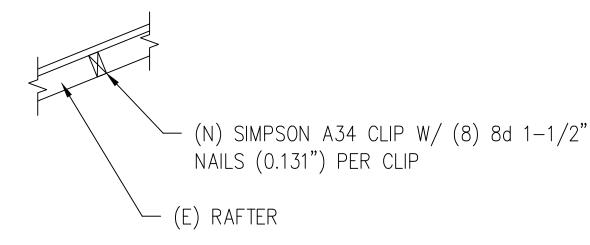














PAGE NAME:

CLIP INSTALLATION DETAIL

NTS

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LANDSCAPE

PORTRAIT

RAFTER

48"

48"

2x10 @ 16" OC

None @16" OC

24"

21"

X AND Y ARE ALWAYS RELATIVE TO THE STRUCTURE FRAMING THAT SUPPORTS THE PV

JOB NUMBER: JB—604008	00
моинтинд system: ZS Comp V4 w Flashing-Insert	
MODULES: (36) SC Std SC315B2	
INVERTER: Multiple Inverters	

Comp Shingle

ROOF AZI 118 PITCH 26 ARRAY AZI 118 PITCH 26

STAGGERED

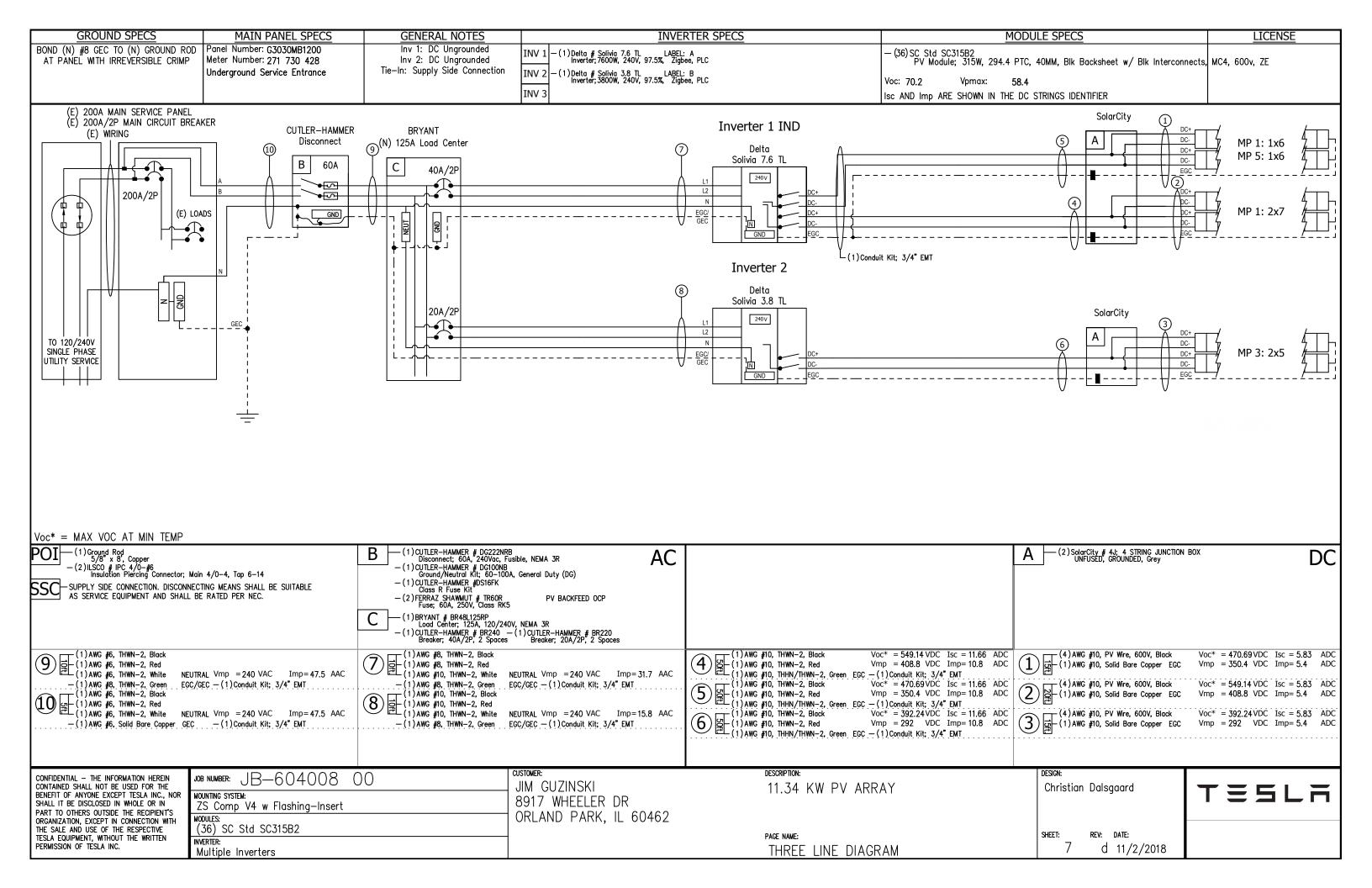
CUSTOMER: JAMES GUZINSKI 8917 WHEELER DR ORLAND PARK, IL 60462

11.34 KW PV ARRAY

STRUCTURAL VIEWS

Christian Dalsgaard

SHEET: REV: DATE: d 11/2/2018 TESLA

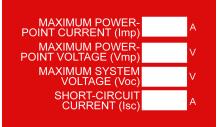


WARNING: PHOTOVOLTAIC POWER SOURCE

Label Location: (C)(CB)(JB) Per Code: NEC 690.31.G.3 Label Location: (DC) (INV)

PHOTOVOLTAIC DC DISCONNECT

Per Code: NEC 690.14.C.2



Label Location: (DC) (INV) Per Code: NEC 690.53

WARNING

ELECTRIC SHOCK HAZARD IF A GROUND FAULT IS INDICATED NORMALLY GROUNDED CONDUCTORS MAY BE **UNGROUNDED AND ENERGIZED**

Label Location: (DC) (INV) Per Code: NEC 690.5(C)

Label Location:

NEC 690.17(4)

(DC) (CB) Per Code:

WARNING

ELECTRICAL SHOCK HAZARD DO NOT TOUCH TERMINALS TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

DC VOLTAGE IS **ALWAYS PRESENT WHEN** SOLAR MODULES ARE **EXPOSED TO SUNLIGHT**

PHOTOVOLTAIC AC DISCONNECT

Label Location: (AC) (POI) Per Code: NEC 690.14.C.2



Label Location: (AC) (POI) Per Code: NEC 690.54

WARNING

ELECTRIC SHOCK HAZARD DO NOT TOUCH TERMINALS TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

Label Location: (AC)(POI) Per Code: NEC 690.17.E

Label Location:

WARNING

ELECTRIC SHOCK HAZARD THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED

Label Location: (DC) (INV) Per Code: NEC 690.35(F) TO BE USED WHEN **INVERTER IS UNGROUNDED**

PHOTOVOLTAIC POINT OF INTERCONNECTION WARNING: ELECTRIC SHOCK HAZARD. DO NOT TOUCH TERMINALS. TERMINALS ON BOTH THE LINE AND LOAD SIDE MAY BE ENERGIZED IN THE OPEN POSITION. FOR SERVICE **DE-ENERGIZE BOTH SOURCE** AND MAIN BREAKER. PV POWER SOURCE MAXIMUM AC **OPERATING CURRENT**

MAXIMUM AC OPERATING VOLTAGE

(POI) Per Code: NEC 690.17.4; NEC 690.54

CAUTION

DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM Label Location: (POI) Per Code: NEC 690.64.B.4

CAUTION

PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFED

Label Location: (D) (POI) Per Code: NEC 690.64.B.4

WARNING

INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE

Label Location: (POI) Per Code: NEC 690.64.B.7

(AC): AC Disconnect

(C): Conduit

(CB): Combiner Box (D): Distribution Panel (DC): DC Disconnect

(IC): Interior Run Conduit

(INV): Inverter With Integrated DC Disconnect

(LC): Load Center (M): Utility Meter

(POI): Point of Interconnection

Label Set



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





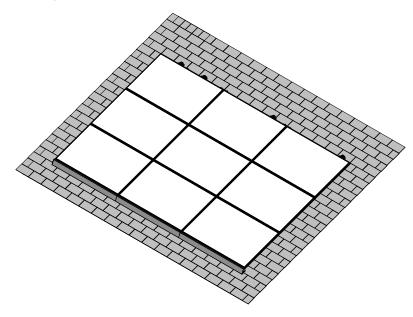
Delta Solar Inverters Datasheet for SolarCity

	SOLIVIA 3.0 TL	SOLIVIA 3.8 TL	SOLIVIA 5.2 TL	SOLIVIA 6.6 TL	SOLIVIA 7.6 TL	
INPUT (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			
DC Disconnect			Internal			
MPP Tracker		1		2		
Fotal Input Strings Available	:	2		4		
OUTPUT (AC)						
Nominal Power	3000 W	3800 W	5200 W	6600 W	7600 W	
der Continues Brown	3000 W @ 208 V /	3300 W @ 208 V /	5200 W @ 208 V /	6600 W @ 208 V /	6600 W @ 208 V /	
Max. Continuous Power	3000 W @ 240 V	3800 W @ 240 V	5200 W @ 240 V	6600 W @ 240 V	7600 W @ 240 V	
/oltage Range		183 ~ 2	28 V @ 208 V / 211 ~ 264 V	@ 240 V		
Nominal 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	
Iominal Frequency			60 Hz			
requency Range			59.3 ~ 60.5 Hz			
Adjustable Frequency Range			57.0 ~ 63.0 Hz			
Night Consumption			< 1.5 W			
otal Harmonic Distortion @ Nominal Power	< 3%					
Power Factor @ Nominal Power	> 0.99					
Adjustable Power Factor Range		0.85i ~ 0.85c				
Acourtic Noise Emission	<50 db(A) @ Im					
SENERAL SPECIFICATION						
Max. Efficiency			98%			
CEC Efficiency	97.5% @ 208V / 97.5% @ 240V					
Operating Temperature Range		-13 ~ 158°F	(-25~70°C) derating above	122°F (50°C)		
Storage Temperature Range			-40 ~ 185°F (-40 ~ 85°C)			
Humidity			0 ~ 100%			
Max. Operating Altitude			2000m above sea level			
MECHANICAL DESIGN						
Size L x W x D inches (L x W x D mm)	19.5 x 15.8 x 8.5 in (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			
AC Connectors		Sį	oring terminals in connection b	oox		
Compatible Wiring Guage in AC		AWG 12 ~ A	WG 6 Copper (According to	NEC 310.15)		
OC Connectors	2 pairs of spring termi	nals in connection box	4 pairs o	of spring terminals in conne	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					
Enclosure Material	Diecast Aluminum					
STANDARDS / DIRECTIVES						
Enclosure Protection Rating		NE	MA 4X, IEC 60068-2-11 Salt	mist		
Safety	UL 1741 Second Edition, CSA C22.2 No.107.1-01					
SW Approval	UL 1998					
Ground-Fault Protection	NEC 690.35, UL 1741 CRD					
Anti-Islanding Protection	IEEE 1547, IEEE 1547.1					
EMC	FCC part 15 Class B					
AFCI	UL 1699B (Type 1), NEC 690.11					
PV Rapid Shutdown	UL 1741 CRD PVRSS, NEC 690.11 (with SMART RSS)					
ntegrated Meter	ANSI C12.1 (meet 1% Accuracy)					
Regulation of Grid Support	California Rule 21, HECO Compliant, IEEE1547					
WARRANTY		Sanonia				
Standard Warranty			10 years			
- In a real way			, , , , , , ,			

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)



ZS Comp for composition shingle roofs







Description

- PV mounting solution for composition shingle roofs
- Works with all Zep Compatible Modules
- Auto bonding UL-listed hardware creates structural and electrical bond
- ZS Comp has a UL 1703 Class "A" Fire Rating when installed using modules from any manufacturer certified as "Type 1" or "Type 2"

Specifications

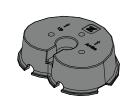
- Designed for pitched roofs
- Installs in portrait and landscape orientations
- ZS Comp supports module wind uplift and snow load pressures to 50 psf per UL 2703
- Wind tunnel report to ASCE 7-05 and 7-10 standards
- ZS Comp grounding products are UL listed to UL 2703 and UL 467
- ZS Comp bonding products are UL listed to UL 2703
- Engineered for spans up to 72" and cantilevers up to 24"
- Zep wire management products listed to UL 1565 for wire positioning devices

zepsolar.com

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Components



Mounting Block

Part No. 850-1633 Listed to UL 2703



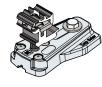
Flashing Insert

Part No. 850-1628 Listed to UL 2703



Captured Washer Lag

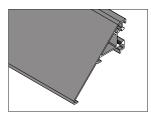
Part No. 850-1631-001 850-1631-002 850-1631-003 850-1631-004



Leveling Foot

zepsolar.com

Part No. 850-1397 Listed to UL 2703



Array Skirt

Part No. 850-1608 or 500-0113 Listed to UL 2703



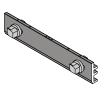
Grip

Part No. 850-1606 or 850-1421 Listed to UL 2703



End Cap

Part No. (L) 850-1586 or 850-1460 (R) 850-1588 or 850-1467



Interlock

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



Ground Zep V2

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



DC Wire Clip

Part No. 850-1509 Listed to UL 1565

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each product. The end-user documentation shipped with Zep Solar's products constitutes the sole specifications referred to in the product warranty. The customer is solely

SC-B2 SERIES MODULE



MORE POWER, FEWER MODULES

SOLARCITY

With a sunlight to electricity conversion efficiency of over 18.8%, the module ranks amongst the highest in the industry. That means our modules can harvest more energy from the sun, which means it takes fewer of our modules to power your home. Plus, they generate more power output during the hottest times of the day, even in warmer

SC315B2 AND SC310B2 BLACK MODULE

Zep Compatible 96-Cell Black-on-Black PV Module For use in residential and commercial PV installations

MORE POWER PER MODULE

Our 315W module generates 16% more power than a standard 270 W module.

MORE ENERGY EVERY YEAR

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

MORE LAYERS, MORE POWER

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

OUTSTANDING DURABILITY

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

LEADING WARRANTY

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











LIMITED WARRANTY	Power Output	10 years (90% of P_{MIN})		
		25 years (80% of P _{MIN})		
	Workmanship	15 years		
MATERIALS	Cell Material	5 inch photovoltaic cells		
	Glass Material	AR coated tempered glass		
	Frame Materials	Black anodized aluminum		
CAUTION	Please read the installation manual of	Please read the installation manual carefully before using the product.		

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

1146037-00-A

MODULE SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

Model	SC315B2	SC310B2
Max Power (W)	315	310
Max Power Voltage, V _{MP} (V)	58.4	58.1
Max Power Current, I _{MP} (A)	5.40	5.34
Open Circuit Voltage, V _{oc} (V)	70.2	69.9
Short Circuit Current, I _{SC} (A)	5.83	5.78
System Voltage (V)	600	600
Max Series Fuse Rating (A)	15	15
Solar Module Efficiency (%)	18.8	18.5
Power Tolerance (%)	+5 / -0	+5 / -0

TEMPERATURE CORRECTION

NOCT (°C)	49
P _{MAX} (%/°C)	-0.29
V _{oc} (%/°C)	-0.25
I _{SC} (%/°C)	0.03

Electrical characteristics are within -5/+10% of the indicated values of I_{sc}, ${
m V}_{
m oc}$, and ${
m P}_{
m MAX}$ under standard test conditions (irradiance of 100 mW/cm, AM 1.5 spectrum, and a cell temperature of 25 degrees Celsius or 77 degrees

AT NOCT (NORMAL OPERATING CONDITIONS)

Model	SC315B2	SC310B2
Max Power (W)	234.6	230.7
Max Power Voltage, V _{MP} (V)	53.6	53.3
${\rm Max\ Power\ Current,\ I_{\rm MP}\ (A)}$	4.37	4.33
Open Circuit Voltage, V _{OC} (V)	65.7	65.4
Short Circuit Current, I _{SC} (A)	4.70	4.66

AT LOW IRRADIANCE (20%)

Model	SC315B2	SC310B2		
Max Power (W)	59.7	58.6		
Max Power Voltage, V _{MP} (V)	55.7	55.2		
Max Power Current, I _{MP} (A)	1.07	1.06		
Open Circuit Voltage, V _{OC} (V)	65.4	65.0		
Short Circuit Current, I _{SC} (A)	1.17	1.16		

MECHANICAL DATA

	19.5kg (42.99 lbs)	1053 (41.46)				40 (1.57)	U	
Weight			В					
Dimensions	1590 mm (62.60") / 1053 mm (41.46") / 40 mm (1.57")			B'+-			300 (11.81)	
Connector	MC4							
Frame Color	Black	1590 (62.60)					990 (38.98)	
Wind and Snow Load	2400 Pa (50 lbs/ft²)	1590 A	A,				066	
Fire Type	UL 1703 Type 2							
	38.8 (1.53) 32 (0.91) 33 (0.91) 33 (0.91) 33 (0.91) 34 (0.91) 35 (0	,	<u></u>		- C		150 (6.91)	Google Co. Co.

SOLARCITY 1146037-00-A