9.62 KW DC ROOF MOUNTED PHOTOVOLTAIC SYSTEM

EQUIPMENT SUMMARY

26 NO'S - SOLARIA 370W 370R-PD MODULES 1 NO - SOLAREDGE SE7600H-US INVERTER WITH 26 NO'S OF P370 DC POWER OPTIMIZERS

BUILDING INFORMATION

Phase : --LOT: --ZONE : --MAP: --*NO CHANGE TO USE, EGRESS OR OCCUPANCY.*

EXISTING XX-STORY XX-FAMILY DWELLING OCCUPANCY CLASSIFICATION: RES CONSTRUCTION CLASSIFICATION: -BUILDING HEIGHT: XX' CROSS STREET(S): WOODLANDS DR, LONG MEADOW RD

SHEET INDEX

Z-100.00 DRAWING LIST. LOT DIAGRAM. SITE PLAN. SCOPE OF WORK, AND BUILDING INFORMATION A-001.00 ENERGY ANALYSIS, INSPECTION ITEMS **STATEMENT & NOTES** A-002.00 BUILDING & ROOFTOP ACCESS AND SOLAR PV INSTALLATION NOTES A-100.00 ROOF PLAN & DETAIL A-101.00 ROOF DETAIL A-200.00 FRONT ELEVATION A-201.00 SIDE ELEVATION A-300.00 THREE LINE DIAGRAM A-301.00 WIRING CALCULATION SHEET A-400.00 MODULE DATA SHEET A-500.00 OPTIMIZER DATA SHEET A-600.00 INVERTER DATA SHEET A-700.00 RACKING DETAILS-1 A-701.00 RACKING DETAILS-2

SCOPE OF WORK

SCOPE OF WORK IS SOLELY FOR THE INSTALLATION OF THE SOLAR ELECTRONIC GENERATING SYSTEM. ALL OTHER WORK IS

NOT TO BE RELIED UPON AS BEING APPROVED AND/OR PERMITTED BY THE NYC DEPARTMENT OF BUILDINGS.

NO CHANGE TO USE, EGRESS OR OCCUPANCY .

PROPERTY ADDRESS:

Owner Name Plat or House #, Street Name City, State - Zip code

POTENTIAL HAZARD THAT COULD COME INTO CONTACT WITH ANY PART OF THE SOLAR ELECTRIC GENERATING SYSTEM, LOCATION OF MAIN SERVICE PANEL AT BASEMENT.







GENERAL CONSTRUCTION NOTES

- THESE CONSTRUCTION DOCUMENTS ARE BASED ON FIELD INSPECTIONS AND OTHER INFORMATION AVAILABLE AT THE TIME OF INSPECTION. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS OF CONSTRUCTION DETAILS
- THE APPLICANT OF RECORD HAS NOT BEEN RETAINED TO SUPERVISE CONSTRUCTION OR INSTALLATION OF 2. ANY EQUIPMENT AT SITE
- CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, OBTAIN ALL PERMITS AND LICENSES AND PAY ALL REQUIRED FEES AND COMPLETE INSTALLATION OF SOLAR PANELS AND EQUIPMENT.
- THE CONTRACTOR HAS THE FULL RESPONSIBILITY TO CHECK AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS INCLUDING THE ROOF AND STRUCTURE. ANY DISCREPANCIES SHALL BE REPORTED TO THE APPLICANT OF RECORD BEFORE PROCEEDING WITH THE WORK. ANY WORK STARTED BEFORE CONSULTATION AND ACCEPTANCE BY THE APPLICANT OF RECORD SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT TO CORRECTION BY HIM WITHOUT ADDITIONAL COMPENSATION.
- DAMAGE CAUSED TO THE EXISTING STRUCTURE, PIPES, DUCTS, WINDOWS, WALL, FLOORS, ETC. SHALL BE REPAIRED TO ORIGINAL CONDITION OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE PROPER INSTALLATION AND COMPLETION OF THE WORK WITH APPROVED MATERIALS.
- NO CHANGES ARE TO BE MADE WITHOUT THE CONSULTATION AND APPROVAL OF THE ARCHITECT.
- THE CONTRACTOR SHALL OBTAIN BUILDING PERMIT. NO WORK TO START UNLESS BUILDING PERMIT IS
- PROPERLY DISPLAYED. ALL WORKMANSHIP AND MATERIALS SHALL BE OF FIRST QUALITY AND IN COMPLIANCE WITH THE REQUIREMENTS OF THE NEW YORK CITY BUILDING CODE. THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ALL PERTINENT AGENCIES.
- 10. IT IS ESSENTIAL THAT ALL WORK PROCEED WITH THE MAXIMUM COOPERATION OF ALL PARTIES AND WITH MINIMUM INTERFERENCE TO THE OCCUPANTS WITHIN THE BUILDING. THE OWNER'S DIRECTIONS IN THIS REGARD SHALL BE FULLY COMPLIED WITH.
- 11. ALL EXPOSED PLUMBING, HVAC, ELECTRICAL DUCTWORK, PIPING AND CONDUITS ARE TO BE PAINTED BY GENERAL CONTRACTOR.
- 12 THE CONTRACTOR SHALL PERFORM THE WORK IN STRICT CONFORMANCE W/ LOCAL LAWS AND REGULATIONS AND THE NATIONAL ELECTRICAL CODE.
- 13. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, APPROVALS, AFFIDAVITS, CERTIFICATIONS, ETC. AND PAY ALL FEES AS REQUIRED BY THE LOCAL AUTHORITIES.
- 14. CONTRACTOR SHALL OBTAIN FIRE CERTIF. UPON COMPLETION OF WORK

STRUCTURAL STATEMENT

NO ADDITIONAL STRUCTURAL WORK REQUIRED @ ROOF FOR SOLAR PANEL INSTALLATION AND THE EXISTING ROOF IS CAPABLE OF SUPPORTING THE LOADS OF THE SOLAR ELECTRICAL GENERATION SYSTEM

NYCECC NOTES

I. THE SOLAR ELECTRIC GENERATING SYSTEM MEETS ALL THE REQUIREMENTS SET FORTH AND THAT IT DOESN'T INCLUDE ANY EQUIPMENT CONNECTED TO THE SOLAR ELECTRIC GENERATING SYSTEM THAT IS A COMPONENT OF PARTS OF AN NON-SOLAR ELECTRIC GENERATING SYSTEM OR THAT USES ANY SORT OF RECREATIONAL FACILITY, OR EQUIPMENT AS A STORAGE MEDIUM. 2. THERE ARE NO TREES ON OR NEAR THE SUBJECT PARCEL THAT WILL BLOCK THE SOLAR PANELS, OR WITHIN THE HAZARD AREA.

CONTRACTORS MUST CHECK AND VERIFY ALL JOB CONDITIONS. DRAWINGS, DETAILS AN SPECIFICATIONS, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK

NYCECC ANALYSIS AND COMPLIANCE

ENERGY ANALYSIS AND SPECIAL/PROGRESS INSPECTIONS F

APPLICATION TYPE : ALT-2	SCOPE OF WORK : SOLAR ELECTRIC ARRAY INSTALLATION
CLIMATE ZONE : 6b (RESIDENTIAL)	2016 NYCECC CHAPTER 4 (RESIDENTIAL ENERGY EFFICIENCY)
NYCECC COMPLIANCE STATEMENT:	
TO THE BEST OF MY KNOWLEDGE BELIEF AND PROFESSIONAL JU	INDMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE I

ITEM DESCRIPTION	PROPOSED DESIGN	PRESCRIPTIVE VALUE	SUPPORTII
	VALUE	& CITATION	(SHEET
ANCHOR SOLAR PANEL SUPPORTING STRUCTURE TO BUILDING STRUCTURE BY SCREWING TO STRUCTURAL MEMBERS, AS SHOWN ON DRAWINGS	SEALING ALL OPENINGS & PENETRATIONS AS PRESCRIBED IN SEC. ECC 402.4.1 & ECC TABLE 402.4.1.1	CAULKING, GASKETING, WEATHER-STRIPPING OR OTHER MATERIAL IN ACCORDANCE WITH SECTION ECC 402.4.1 AND TABLE R405.2(1) FOR CEILINGS AND ATTICS.	Z-100, A-001, A-002, A-100, A-101 A-200, A-201 A-300, A-301 A-400, A-500, A-600, A-600, A-700, A-701 A-800,

SPECIAL / PROGRESS INSPECTIONS

TYPE	SPECIAL / PROGRESS INSPECTION ITEMS	RESPONSIBLE
TR1	SPECIAL INSPECTION ITEMS	
	STRUCTURAL STABILITY-EXISTING BUILDINGS - BC1704.20.1	
	FIRE-RESISTANT PENETRATIONS AND JOINTS - BC1704.27	
	PROGRESS INSPECTION ITEMS	
	ENERGY CODE COMPLIANCE INSPECTIONS - BC110.3.5;	
	FINAL 28-116.2.4.2, BC 110.5, DIRECTIVE 14 OF 1975, AND 1 RCNY SEC.101-10	
ENERGY CODE	PROGRESS INSPECTION	

REQUIRED FOR APPLICATIONS WHERE ENERGY CODE COMPLIANCE PROGRESS INSPECTION IS MARKED "YES" ON TR-1

TYPE	INSPECTION ITEMS	RESPONSIBLE F		
TR8	AIR SEALING AND INSULATION - VISUAL (IA6), (IIA6)			
* FOR COMPLIANCE WITH NYCECC & RCNY §5000-01 (b) (1)				

TENANT SAFETY NOTES

PER §28-104.8.4 TENANT PROTECTION PLAN, THE ELEMENTS OF THE TENANT PROTECTION PLAN FOR INSTALLATION OF SOLAR PANEL ON EXISTING ROOF ARE AS FOLLOWS:

1. EGRESS

THE PROPERTY WILL BE OCCUPIED DURING INSTALLATION. THROUGHOUT THE INSTALLATION OF SOLAR PANELS ON THE ROOF AND EQUIPMENT (INVERTER(S) AND AC CUT OFF SWITCH) ON OUTSIDE WALL, ALL MEANS OF EGRESS FROM THE BUILDING WILL BE FREE OF ANY OBSTRUCTION SUCH AS BUILDING MATERIAL, DEBRIS, ETC. ALL ENTRANCE DOORS AND LIGHTS IN PUBLIC HALLWAYS WILL BE

KEPT IN WORKING ORDER TO ENSURE PROPER EGRESS IN CASE OF AN EMERGENCY

2. FIRE SAFETY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FIRE SAFETY TO THE TENANTS IN ACCORDANCE WITH THE FIRE DEPARTMENT AND THE BUILDING DEPARTMENT INSTALLATION TO COMPLY WITH 2014 NYC FIRE CODE INCLUDING BUT

NOT LIMITED TO SECTION 504. A CLEAR PATH OF NOT LESS THAN 6 FEET HORIZONTAL WIDTH AND 9 FEET IN HEIGHT SHALL BE PROVIDED FROM THE FRONT OF THE

BUILDING TO THE REAR OF THE BUILDING AND FROM ONE SIDE OF THE BUILDING TO THE OTHER FOR EACH 100 LINEAR FEET OF ROOFTOP WIDTH AND DEPTH.

SUCH PATH SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

1. SUCH CLEAR PATH SHALL BE ACCESSIBLE FROM EACH ROOFTOP PERIMETER ACCESS LANDING REQUIRED PURSUANT TO FC504.4.3. 2. SUCH CLEAR PATH SHALL AFFORD REASONABLE ACCESS TO BULKHEAD DOORS, FIRE ESCAPES, ACCESS LADDERS, COCKLOFT, VENTS SKYLIGHTS SCUTTLES AND SHAFTS SUCH ACCESS SHALL INCLUDE. TO THE MAXIMUM EXTENT PRACTICABLE. 3-FEET CLEARANCE ON THREE SIDES OF THE SKYLIGHT OR SCUTTLE.

3. A CONDUIT OR PIPE MAY CROSS SUCH CLEAR ACCORDANCE WITH EC504.4.7

4 ANY LAWFUL FENCE OBSTRUCTING SUCH CLEAR PATH S PROVIDED WITH A STANDARD 3-FOOT-WIDE GATE, WHICH SECURED BY PADLOCK OR CHAIN CAPABLE OF BEING STANDARD BOLT CUTTERS, OR SECURED BY OTHER AF DEVICE.

5. WHEN THE MAIN BUILDING ROOFTOP HAS MORE THAN ON A FIXED LADDER OR OTHER APPROVED MEANS SHALL BE P TO AFFORD ACCESS ALONG THE CLEAR PATH FROM ONE ROO TO THE NEXT, EXCLUDING ANY HEIGHT DIFFERENTIAL E LEVELS EXCEEDING ONE STORY OR 16 FEET, AND ANY LEVE ROOFTOP AREA THAT IS LESS THAN 6 FEET IN ANY DIMENSION

3. HEALTH REQUIREMENTS

ALL DEBRIS WILL BE DISPOSED OF IN A LEGAL AND PROPER NO DEBRIS WILL BE LEFT ON THE SITE, DUST SHALL BE CON WITH THE USE OF DROP CLOTHS AND SHOULD BE REMOVE COMPLETION OF WORK EACH DAY, DISPOSAL OF CONST DEBRIS MUST BE DONE IN THE SAFE MANNER. MAINTAIN \$ FACILITIES. CONTROL PESTS AT ALL TIMES. CONTRACTO COMPLY WITH APPLICABLE LAWS RELATING TO LEAD AND AS IF OBSERVED IMMEDIATELY CONTACT OWNER OR ARCHITECT

. COMPLIANCE WITH HOUSING STANDARDS

ELECTRIC, GAS, OR OTHER UTILITIES ARE NOT TO BE INTER BUILDING SECURITY TO BE MAINTAINED TO PREVENT UNAUT PERSONS FROM ENTERING THE BUILDING THE REQUIREMENTS OF THE NY CITY HOUSING MAINTENANO AND MD LAW SHALL BE STRICTLY OBSERVED

TITLE: ENERGY ANALYSIS, INSPECTION					
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	SIS, INSPECTION ENT & NOTES	SIS, INSPECTION ENT & NOTES			

PROPERTY ADDRESS: **INSTALLER: Owner Name** Installer Name Plat or House #, Street Name Plat or House #, Street Name City, State - Zip code City, State - Zip code

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BUILDING & ROOFTOP ACCESS NOTES: (SECTION FC 504)

504 1 BUILDING ACCESS

EXTERIOR DOORS AND OPENINGS REQUIRED BY THIS CODE OR THE CONSTRUCTION CODES, INCLUDING THE BUILDING CODE. SHALL BE MAINTAINED IN A MANNER THAT AFFORDS ACCESS BY FIREFIGHTING PERSONNEL IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SECTION, CHAPTER 10, AND THE BUILDING CODE. AN APPROVED ACCESS WALKWAY LEADING FROM FIRE APPARATUS ACCESS ROADS TO EXTERIOR OPENINGS SHALL BE PROVIDED WHEN REQUIRED BY THE COMMISSIONER

504.1.1 FRONTAGE SPACE OBSTRUCTIONS:

OBSTRUCTIONS, SUCH AS PLANTERS, FENCES AND BOLLARDS, SHALL NOT BE PLACED IN THE REQUIRED FRONTAGE SPACE UNLESS THEY HAVE BEEN APPROVED BY THE COMMISSIONER OF BUILDINGS, THE COMMISSIONER OF TRANSPORTATION, OR THE COMMISSIONER, AS APPLICABLE.

504.2 MAINTENANCE OF EXTERIOR DOORS AND OPENINGS:

EXTERIOR DOORS AND THEIR FUNCTION SHALL NOT BE ELIMINATED WITHOUT PRIOR APPROVAL OF THE NEW YORK CITY DEPARTMENT OF BUILDINGS. EXTERIOR DOORS THAT HAVE BEEN RENDERED NONFUNCTIONAL AND THAT RETAIN A FUNCTIONAL DOOR EXTERIOR APPEARANCE SHALL HAVE A SIGN AFFIXED TO THE EXTERIOR SIDE OF THE DOOR WITH THE WORDS THIS DOOR BLOCKED. THE SIGN SHALL CONSIST OF LETTERS HAVING A PRINCIPAL STROKE OF NOT LESS THAN 0.75 INCH (19.1 MM) WIDE AND AT LEAST 6 INCHES (152 MM) HIGH ON A CONTRASTING BACKGROUND. REQUIRED DEPARTMENT ACCESS DOORS SHALL NOT BE OBSTRUCTED OR ELIMINATED. EXIT AND EXIT ACCESS DOORS SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 10 AND THE CONSTRUCTION CODES, INCLUDING THE BUILDING CODE. ACCESS DOORS FOR HIGH-PILED COMBUSTIBLE STORAGE SHALL COMPLY WITH THE **REQUIREMENTS OF SECTION 2306.6.1.**

504.3 STAIRWAY ACCESS TO ROOF:

STAIRWAY ACCESS TO THE ROOF SHALL BE IN ACCORDANCE WITH CHAPTER 10 AND THE CONSTRUCTION CODES, INCLUDING THE BUILDING CODE. SUCH STAIRWAY SHALL BE MARKED AT STREET AND FLOOR LEVELS WITH A SIGN INDICATING THAT THE STAIRWAY CONTINUES TO THE ROOF. WHERE ROOFS ARE USED FOR ROOF GARDENS OR FOR OTHER LAWFUL PURPOSES, STAIRWAYS SHALL BE PROVIDED AS REQUIRED FOR SUCH OCCUPANCY CLASSIFICATION

504.4 ROOFTOP ACCESS AND OBSTRUCTIONS:

THE ROOFTOPS OF BUILDINGS 100 FEET (30 480 MM) OR LESS IN HEIGHT, EXCEPT ROOFTOPS WITH A SLOPE EXCEEDING 20° FROM THE HORIZONTAL, SHALL BE MAINTAINED IN A MANNER THAT AVOIDS OR MINIMIZES OBSTRUCTIONS TO ACCESS FOR FIREFIGHTING OPERATIONS. FOR PURPOSES OF THIS SECTION ONLY, "ROOFTOP" SHALL INCLUDE ROOFTOPS OF BUILDING SETBACKS, AND "OBSTRUCTION" SHALL MEAN ANY FIXTURE OR OTHER ITEM THAT IS NOT READILY MOVABLE BY A PERSON WITHOUT THE USE OF TOOLS OR EQUIPMENT, INCLUDING AIR CONDITIONING SYSTEMS, BILLBOARDS AND OTHER SIGNS, CELLULAR ANTENNA EQUIPMENT. COOLING TOWERS, FUEL OIL STORAGE TANKS, GENERATORS, HEATING SYSTEMS, PLANTERS, SOLAR PANELS, VENTILATION SYSTEM DUCTS, INTAKES AND EXHAUSTS. AND WINDOW CLEANING EQUIPMENT, BUT SHALL NOT INCLUDE NONMETALLIC3 DECKING.

504.4.1 ROOFTOP ACCESS:

ACCESS TO BUILDING ROOFTOPS SHALL BE PROVIDED AS FOLLOWS:

1. FOR EACH 12 LINEAR FEET (3658 MM) OF BUILDING PERIMETER ACCESSIBLE FROM THE FRONTAGE SPACE OF THE BUILDING AND FROM ANY OTHER EXPOSURE ACCESSIBLE TO FIRE APPARATUS, A MINIMUM CLEARANCE OF 6 FEET (1829 MM) IN WIDTH AND 6 FEET (1829 MM) IN DEPTH FROM ANY OBSTRUCTION SHALL BE PROVIDED AT THE PARAPET WALL OR OTHER PERIMETER OF THE ROOFTOP. WHERE SUCH BUILDING PERIMETER IS 24 LINEAR FEET (7315 MM) OR GREATER, BUT LESS THAN 36 LINEAR FEET (10 973 MM), THE REQUIRED CLEARANCE OPÉNINGS SHALL BE SEPARATED BY A DISTANCE LESS THAN 12 LINEAR FEET (3658 MM). WHERE SUCH BUILDING PERIMETER IS 36 LINEAR FEET (10 973 MM) OR GREATER, THE REQUIRED CLEARANCE OPENINGS MAY BE CONTIGUOUS, PROVIDED, HOWEVER, THAT SUCH CONTIGUOUS OPENINGS SHALL NOT EXCEED 12 LINEAR FEET (3658 MM) AND SHALL BE SEPARATED FROM OTHER REQUIRED CLEARANCE OPENINGS BY A DISTANCE OF NOT LESS THAN 12 LINEAR FEET (3658 MM). EACH EXPOSURE ACCESSIBLE BY FIRE APPARATUS MAY BE TREATED SEPARATELY FOR PURPOSES OF LOCATING CLEARANCE OPENINGS AND OTHERWISE COMPLYING WITH THE REQUIREMENTS OF THIS PROVISION.

2. A MINIMUM CLEARANCE OF 6 FEET (1829 MM) IN ALL DIRECTIONS SHALL BE PROVIDED FROM EACH DOOR OPENING ONTO A ROOFTOP FROM A DWELLING UNIT, STAIRWAY, BULKHEAD, OR OTHER OCCUPIED SPACE OR MEANS OF EGRESS, AS MEASURED FROM THE DOOR HINGE.

3. A MINIMUM CLEARANCE OF 3 FEET (914 MM) IN ALL DIRECTIONS SHALL BE PROVIDED FROM ANY FIRE ESCAPE OR ROOFTOP ACCESS LADDER, AS MEASURED FROM EACH SIDE OF THE ADDER OR LANDING

4. EACH EXPOSURE ACCESSIBLE BY FIRE APPARATUS MAY BE TREATED SEPARATELY FOR PURPOSES OF LOCATING CLEARANCE OPENINGS AND OTHERWISE COMPLYING WITH THE REQUIREMENTS OF THIS PROVISION

5. AWNINGS, SUN CONTROL DEVICES, SOLAR PANELS OR OTHER STRUCTURES AFFIXED TO AN EXTERIOR BUILDING WALL BELOW THE ROOF LINE SHALL NOT OBSTRUCT FIRE APPARATUS. AERIAL LADDER ACCESS TO THE ROOFTOP PERIMETER ACCESS LOCATIONS. 6. SCAFFOLDING OBSTRUCTING ROOFTOP ACCESS LOCATIONS SHALL BE DESIGNED TO PROVIDE SECURE LANDINGS AT SUCH LOCATIONS IN AN APPROVED MANNER.

504.4.2 ROOFTOP ACCESS SIGNS AND MARKINGS:

WHERE REQUIRED BY THE DEPARTMENT, A SIGN, DECAL OR APPROVED MARKING SHALL BE PROVIDED ON THE EXTERIOR WALL OF A BUILDING, AT AN APPROVED LOCATION ON A LOWER STORY DIRECTLY BELOW THE ROOFTOP PERIMETER ACCESS LANDINGS TO IDENTIFY THE LOCATION OF SUCH ROOFTOP ACCESS. THE DEPARTMENT MAY REQUIRE SUCH SIGNS OR MARKINGS WHEN ROOFTOP CONDITIONS NOT APPARENT FROM THE STREET MAKE ROOFTOP ACCESS UNSAFE AT LOCATIONS OTHER THAN THE APPROVED BUILDING PERIMETER ACCESS LANDINGS, OR DO NOT ALLOW FOR ACCESS TO THE ROOF

504.4.3 ROOFTOP ACCESS LANDINGS:

AT EACH ROOFTOP PERIMETER ACCESS LOCATION, THERE SHALL BE A SAFE LANDING AREA NOT LESS THAN 6 FEET (1829 MM) IN ANY DIMENSION, CONNECTED TO THE CLEAR PATH REQUIRED BY FC504.4.4. THE LANDING SHALL NOT BE OBSTRUCTED BY A FENCE, EXCEPT AS APPROVED. IF APPROVED, SUCH FENCE SHALL BE PROVIDED WITH A STANDARD 3-FOOT-WIDE (914 MM) GATE THAT SWINGS INWARD. SUCH GATE MAY BE SECURED BY A PADLOCK AND CHAIN CAPABLE OF BEING CUT BY STANDARD BOLT CUTTERS FROM EITHER SIDE OF THE GATE OR SECURED BY OTHER APPROVED DEVICE

504.4.4 ROOFTOP CLEAR PATH:

A CLEAR PATH OF NOT LESS THAN 6 FEET (1829 MM) HORIZONTAL WIDTH AND 9 FEET (2743 MM) IN HEIGHT SHALL BE PROVIDED FROM THE FRONT OF THE BUILDING TO THE REAR OF THE BUILDING AND FROM ONE SIDE OF THE BUILDING TO THE OTHER FOR EACH 100 LINEAR FEET (30 480 MM) OF ROOFTOP WIDTH AND SUCH PATH SHALL COMPLY WITH THE FOLLOWING **REQUIREMENTS:**

1. SUCH CLEAR PATH SHALL BE ACCESSIBLE FROM EACH ROOFTOP PERIMETER ACCESS LANDING REQUIRED PURSUANT TO FC504.4.3.

2. SUCH CLEAR PATH SHALL AFFORD REASONABLE ACCESS TO BULKHEAD DOORS, FIRE ESCAPES, ACCESS LADDERS, COCKLOFT VENTS, SKYLIGHTS, SCUTTLES AND SHAFTS. SUCH ACCESS SHALL INCLUDE, TO THE MAXIMUM EXTENT PRACTICABLE, 3-FEET (914 MM) CLEARANCE ON THREE SIDES OF THE SKYLIGHT OR SCUTTLE.

3. A CONDUIT OR PIPE MAY CROSS SUCH CLEAR PATH IN ACCORDANCE WITH FC504.4.7.

4. ANY LAWFUL FENCE OBSTRUCTING SUCH CLEAR PATH SHALL BE PROVIDED WITH A STANDARD 3-FOOT-WIDE (914 MM) GATE, WHICH MAY BE SECURED BY PADLOCK OR CHAIN CAPABLE OF BEING CUT BY STANDARD BOLT CUTTERS, OR SECURED BY OTHER APPROVED DEVICE

5. WHEN THE MAIN BUILDING ROOFTOP HAS MORE THAN ONE LEVEL, A FIXED LADDER OR OTHER APPROVED MEANS SHALL BE PROVIDED TO AFFORD ACCESS ALONG THE CLEAR PATH FROM ONE ROOF LEVEL TO THE NEXT, EXCLUDING ANY HEIGHT DIFFERENTIAL BETWEEN LEVELS EXCEEDING ONE STORY OR 16 FEET (4077 MM), AND ANY LEVEL WITH A ROOFTOP AREA THAT IS LESS THAN 6 FEET (1829 MM) IN ANY DIMENSION.

6. ON AN "H"-SHAPED BUILDING OR OTHER BUILDING WHOSE IRREGULAR CONFIGURATION RENDERS A SINGLE CLEAR PATH INADEQUATE TO PROVIDE ACCESS TO EACH WING OF THE BUILDING OR OTHER ROOFTOP AREA. THE COMMISSIONER MAY REQUIRE ONE OR MORE ADDITIONAL CLEAR PATHS TO PROVIDE ADEQUATE ACCESS TO SUCH ROOFTOP AREAS.

504.4.5 ROOFTOP CLEAR PATH PROTECTION

ADEQUATE PROTECTION, IN THE FORM OF A SECURELY AFFIXED PROTECTIVE RAILING OR BARRIER THAT IS 42 INCHES (1067 MM) ABOVE THE ROOF SURFACE IN HEIGHT ALONG THE CLEAR PATH, SHALL BE PROVIDED FOR ANY SHAFT, BUILDING PERIMETER OR ELEVATION ADJOINING THE CLEAR PATH OR ROOFTOP PERIMETER ACCESS LANDING (EXCEPT THE ROOFTOP ACCESS LANDING ITSELF).

EXCEPTION: HEIGHT DIFFERENTIALS OF 6 FEET (1829 MM) OR LESS.

504.4.6 REQUIRED ROOFTOP CLEARANCES:

A MINIMUM CLEARANCE OF 6 FEET (1829 MM) IN ALL DIRECTIONS SHALL BE PROVIDED FROM EACH DOOR OPENING ONTO A ROOFTOP FROM A DWELLING UNIT, STAIRWAY, BULKHEAD, OR OTHER OCCUPIED SPACE OR MEANS OF EGRESS, AS MEASURED FROM THE DOOR HINGE. A MINIMUM CLEARANCE OF 3 FEET (914 MM) IN ALL DIRECTIONS SHALL BE PROVIDED FROM ANY FIRE ESCAPE OR ROOFTOP ACCESS LADDER AS MEASURED FROM EACH SIDE OF THE LADDER OR LANDING

504.4.7 ROOFTOP CONDUITS AND PIPING

TO THE MAXIMUM EXTENT PRACTICABLE, CONDUITS, INCLUDING CABLE TRAYS, AND PIPING, SHALL BE INSTALLED AT ROOFTOP LOCATIONS WHERE THEY DO NOT OBSTRUCT ROOFTOP ACCESS LANDINGS, CLEAR PATH OR REQUIRED CLEARANCES. IF IT IS IMPRACTICABLE TO AVOID THESE AREAS, CONDUITS AND PIPING SHALL BE DESIGNED AND INSTALLED TO FACILITATE ACCESS AND MINIMIZE TRIPPING HAZARDS. STEPS OR RAMPS (OR PLATFORMS WITH STEPS, RAMPS OR LADDERS) SHALL BE PROVIDED THAT ARE CONSTRUCTED OF NONCOMBUSTIBLE MATERIAL, EQUIPPED WITH RAILINGS, AND DESIGNED TO ALLOW ANY CONDUIT OR PIPING INSTALLATIONS THAT EXCEED 1 FOOT (305 MM) IN HEIGHT ABOVE THE ROOF SURFACE, OR MORE THAN 24 INCHES (610 MM) IN WIDTH. TO BE READILY TRAVERSED, STEPS, RAMPS, PLATFORMS AND LADDERS SHALL NOT BE PLACED IN AREAS OR IN A MANNER THAT WOULD OBSTRUCT ANY DOOR OR MEANS OF EGRESS. ALL CONDUITS AND PIPING INSTALLATIONS SHALL BE COLOR-CODED WITH CONTINUOUS, DURABLE AND WEATHERPROOF REFLECTIVE OR LUMINESCENT MARKINGS AS FOLLOWS, AND FOR CONDUIT AND PIPING INSTALLED AFTER JULY 1, 2014, SHALL BE CONTINUOUSLY LABELED IN AN APPROVED MANNER TO INDICATE ITS CONTENTS

1. HIGH VOLTAGE WIRING - RED. 2. LOW VOLTAGE WIRING - ORANGE.

3 NATURAL GAS PIPING - YELLOW

WITH THE TYPE OF GAS 5 FUEL OIL PIPING - YELLOW WITH BLACK STRIPES

SECTION FC 512.4 PHOTOVOLTAIC SOLAR PANEL INSTALLATIONS NOTES

512.3 PITCHED-ROOFED BUILDINGS AND STRUCTURES 100 FEET OR LESS IN HEIGHT:

SOLAR PANEL INSTALLATIONS SHALL BE DESIGNED, INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THIS SECTION ON ROOFTOPS OF BUILDINGS AND STRUCTURES 100 FEET (30 480 MM) OR LESS IN HEIGHT WITH A SLOPE EXCEEDING 20 DEGREES, EXCEPT DETACHED GROUP U BUILDINGS AND STRUCTURES. 512.3.1 HIP ROOFS. SOLAR PANEL INSTALLATIONS SHALL PROVIDE A 3 FOOT (914 MM) WIDE CLEAR ACCESS AREA ALONG THE RIDGE ON EACH ROOF SLOPE UPON WHICH SOLAR PANELS ARE INSTALLED. 512.3.2 VENTILATION. SOLAR PANELS SHALL NOT BE INSTALLED CLOSER THAN 3 FEET (914 MM) TO THE RIDGE LINE.

512.4 PHOTOVOLTAIC SOLAR PANEL INSTALLATIONS:

PHOTOVOLTAIC SOLAR PANEL INSTALLATIONS SHALL BE DESIGNED. INSTALLED. OPERATED AND MAINTAINED IN COMPLIANCE WITH THE REQUIREMENTS OF THIS SECTION.

512.4.1 LOCATION OF PHOTOVOLTAIC SOLAR PANEL INSTALLATIONS ON PITCHED ROOFS:

DIRECT CURRENT CONDUIT, WIRING SYSTEMS, AND RACEWAYS FOR PHOTOVOLTAIC CIRCUITS INSTALLED ON PITCHED ROOFS SUBJECT TO THE REQUIREMENTS OF FC512.3 SHALL BE LOCATED ALONG HIPS AND VALLEYS AWAY FROM THE RIDGE AND ON OUTSIDE WALLS TO MAXIMIZE VENTILATION OPPORTUNITIES. CONDUIT RUNS BETWEEN SUB-ARRAYS AND TO DIRECT CURRENT COMBINER BOXES SHALL BE INSTALLED IN A MANNER THAT MINIMIZES THE TOTAL AMOUNT OF CONDUIT ON THE ROOF BY TAKING THE SHORTEST PATH FROM THE ARRAY TO THE DIRECT CURRENT COMBINER BOX, EXCEPT AS NECESSARY TO MINIMIZE THE TRIPPING HAZARD. THE DIRECT CURRENT COMBINER BOXES SHALL BE LOCATED SUCH THAT CONDUIT RUNS ARE MINIMIZED IN THE PATHWAYS BETWEEN ARRAYS.

512.4.2 PHOTOVOLTAIC SOLAR PANEL INSTALLATION MARKINGS:

INDOOR AND OUTDOOR DIRECT CURRENT CONDUIT, ENCLOSURES, RACEWAYS, CABLE ASSEMBLIES, JUNCTION BOXES, COMBINER BOXES, & MAIN SERVICE & OTHER DISCONNECTS SHALL HAVE DURABLE, RETROREFLECTIVE &, IF OUTDOORS, WEATHERPROOF, MARKINGS, IN WHITE CAPITAL LETTERS WITH A HEIGHT OF NOT LESS THAN 3/8 INCH (9.5 MM) ON A RED BACKGROUND, READING "WARNING: PHOTOVOLTAIC POWER CONTINUOUS INSTALLATIONS, INCLUDING CONDUIT, RACEWAYS, ENCLOSURES AND CABLE ASSEMBLIES, SHALL BE MARKED EVERY 10 FEET (3048 WITHIN 1 FOOT (305 MM) OF ALL TURNS OR BENDS, AND WITHIN 1 FOOT (305 ABOVE AND BELOW ALL PENETRATIONS OF ROOF OR CEILING ASSEMBLIES AND ALL WALLS

PROPERTY ADDRESS:	INSTALLER:					TITLE:			Rev	Designe By
Ourses Name	Inotellar Nama					BUIL	DING & ROO	FTOP ACCESS AND	-	-
Owner Name	Installer Name					301/	AR PV INSTA	LLATION NOTES		
Plat or House # Street Name	Plat or House # Street Name									
						PHASE :		-		
City, State - Zip code	City, State - Zip code					LOT:		-		
						ZONING:		-		
						MAP:		-		
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4. OTHER COMPRESSED GAS PIPING - YELLOW, LABELED AT REGULAR INTERVALS

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Module Rating Specs			Inve	rter Rating Specs	
	SOLARIA		SOLARE	DGE SE7600H-US	
	370R-PD		Nominal Input	20	A DC
max -	370	Wn	Max.Short Circuit I/P	45	A DC
	40.0	11p	Output Voltage	240	V AC
mp -	40.2	V	Imax	32	A AC
np -	9.2	A	Inec	40	A (@125%)
′oc -	48.3	V	Ou	tdoor NEMA 3R	Enclosure
- 3G	9.6	Α	UL	1741 / IEEE 1547	

А

PROPERTY ADDRESS:	
Owner Name	

ELECTRICAL CALCULATION :

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													WIRING AND	CONDUIT SCHE	DULE												
													DC	CHEDULE													
	ITEM	DESCRIPTION	ID	QTY	Voc (V)	Vmpp (V) STC	Impp (A) STC	ISC (A) STC	Max Circuit Current (A)	Nominal Power	Minimum Ampacity (A)	Adjusted Ampacity (A)	OCPD Rating (A)	Multiple Conductor Derate	Temperature Derate	Max One Way Length (ft)	Wire Size	Wire Ampacity (A)	Derated Ampacity (A)	Ground	Wire Type	R/1000FT	V Loss%	Temp Max	Total No Of Conductors	No. Of Current Carrying Conductors	Conduit
1	MODULE	SOLARIA		26	48.3	40.2	9.2	9.6	12.00	370	15.0	16.0	20	1.00	0.76	3.3	#12 AWG	30	22.8	#6 Bare	PV	1.98	0.02%	52 C	2	2	N/A
2	STRING	MODULE TO POWER OPTIMIZERS (e.g: PV MODULES CONNECTED IN SERIES FOR ONE STRING)	A	2	627.9	522.6	9.2	9.6	12.00	4810	15.0	19.9	20	0.80	0.76	10	#10 AWG	40	24.32	#10 AWG	PV Wire	1.24	0.09%	52 C	5	4	3/4" EMT Min
3	WINNO	POWER OPTIMIZERS TO JUNCTION BOX TO INVERTER	В	2	627.9	522.6	9.2	9.6	12.00	4810	15.0	19.9	20	0.80	0.76	100	#10 AWG	40	24.32	#10 AWG	PV Wire	1.24	0.87%	52 C	5	4	3/4" EMT Min
							Tot	tal Nominal Po	ower	9620												DC DROP	0.98%				
													AC	CHEDULE													
	ITEM	DESCRIPTION	ID	QTY	Volta	age (V)	Max	Circuit Curre	nt (A)	Power	Minimum Ampacity (A)	Adjusted Ampacity (A)	OCPD Rating (A)	Multiple Conductor Derate	Temperature Derate	Max One Way Length (ft)	Wire Size	Wire Ampacity (A)	Derated Ampacity (A)	Ground	Wire Type	R/1000FT	V Loss%	Temp Max	Total No Of Conductors	No. Of Current Carrying Conductors	Conduit
4		INVERTER TO AC DISCONNECT	С	1	2	240		32		7600	40.0	42.6	40	1.00	0.96	5	#8 AWG	55	52.8	#10 AWG	THWN-2	0.78	0.05%	30 C	4	2	3/4" EMT Min
5	AC WIRING	AC DISCONNECT TO MAIN SERVICE PANEL	D	1	2	240		32		7600	40.0	42.6	40	1.00	0.96	100	#8 AWG	55	52.8	#10 AWG	THWN-2	0.78	1.04%	30 C	4	2	3/4" EMT Min
							Tot	tal Nominal Po	ower	7600												AC DROP	1.09%				

4

				BILL OF MATERIAL							System Cor	figuration	Inverter	Rating Specs	
REF. DES.	QTY.	MANUFACTURER	MODEL NUMBER	DESCR	RIPTION						Number of strings	2 No's	SOLAREDO	E SE7600H-US	
	26	SOLARIA	370R-PD	SOLAR PANEL	370	W	1000	V (UL)			Number of Modules	26 _{No's}	Nominal Input	20	A DC
SOLAR MODULES	20	NOTES: 1. TYPE-1 UL 1703 cla	ass C								Modules Per string	2 X 13	Max.Short Circuit I/P	45	A DC
	1	SOLAREDGE	SE7600H-US	INVERTER	7.6	Kw	NE	MA 3R	240	V AC	Number of Inverter	1 No's	Output Voltage	240	V AC
	I	NOTES: 1. DC INPUT WIRE R.	ANGE (2) #12 to #2; AC OL	JTPUT WIRE RANGE (3) #12							Module Model	370R-PD	Imax	32	A AC
MSP	1	TBD	TBD	MAIN SERVICE PANEL, NEMA 3R ENCLOSURE	200	A	1	Ph	240	V AC	Inverter Model	SE7600H-US	Inec	40	A (@125%)
		SQUARE D	TBD	AC DISCONNECT	60	A					BV Service Disconnect	40 ^	Outdo	or NEMA 3R	Enclosure
AC DISCONNECT	1	NOTES: 1. USED AS PV UTILI 2. LOCKABLE HEAV	TY/SERVICE DISCONNEC	T SIBLE CONTACTS, UL LISTED						-	DC Watts STC	9620 W	UL174	1 / IEEE 1547	•
AC JUNCTION BOX	1	TBD	TBD	AC JUNCTION BOX	600	V					Max AC output Current	32 A			
AC COMBINER PANEL	1	TBD	COMBINER PANEL	NEMA 3R ENCLOSURE	150	A	1	Ph	240	V AC	Operating AC Voltage	240 _V			

5

Мос	dule Rating Sp	ecs
	SOLARIA	
	370R-PD	
max -	370	Wp
/mp -	40.2	V
mp -	9.2	A
/oc -	48.3	V
SC -	9.6	Α

Rev Design By - -01 PB PROPERTY ADDRESS: **INSTALLER:** TITLE: WIRING CALCULATION SHEET Installer Name Owner Name Plat or House #, Street Name Plat or House #, Street Name PHASE : LOT: ZONING: MAP: City, State - Zip code City, State - Zip code 8 7 6 5 1

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Achieving 20% efficiency, Solaria PowerXT solar panels are one of the highest power panels in the residential and commercial solar market. Compared to conventional panels, Solaria PowerXT panels have fewer gaps between the solar cells; this leads to higher power and superior aesthetics. Solaria PowerXT Pure BlackTM panels are manufactured with black backsheet and frames, enhancing a home or building's architectural beauty.

Developed in California, Solaria's patented cell cutting and panel assembly takes processed solar wafers and turns them into PowerXT solar panels. The process starts by creating a highly reliable PowerXT cell where busbars and ribbon interconnections are eliminated. Solaria then packages the cells into the PowerXT solar panel, reducing inactive space between the cells. This process leads to an exceptionally cost effective and efficient solar panel.

Higher Efficiency, Higher Power

Solaria PowerXT panels achieve up to 20% efficiency; conventional panels achieve 15% -17% efficiency. Solaria PowerXT panels are one of the highest power panels available.

Lower System Costs

Solaria PowerXT panels produce more power per square meter area. This reduces installation costs due to fewer balance of system components.

Improved Shading Tolerance

Sub-strings are interconnected in parallel, within each of the four panel quadrants, which dramatically lowers the shading losses and boosts energy yield.

Improved Aesthetics

Compared to conventional panels, Solaria PowerXT panels have a more uniform appearance and superior aesthetics.

Durability and Reliability

Solder-less cell interconnections are highly reliable and designed to far exceed the industry leading 25 year warranty.

About Solaria

Established in 2000, The Solaria Corporation has created one of the industry's most respected IP portfolios, with over 65 patents encompassing materials, processes, applications, products, manufacturing automation and equipment. Headquartered in Oakland, CA, Solaria has developed a technology platform that unlocks the potential of solar energy.

The Solaria Corporation 1700 Broadway, Oakland, CA 94612 P: (510) 270-2500 www.solaria.com Product specifications are subject to change without notice.



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SOLARIA

Performance at STC (100)	0W/m²	, 25° C, AM 1.5)		Mechanical (
Solaria PowerXT-		360R-PD	370R-PD	Cell Type
Max Power (Pmax)	[W]	360	370	Dimensions (L
Efficiency	[%]	19.9	20.5	Weight
Open Circuit Voltage (Voc)	[V]	47.7	48.3	Glass Type / T
Short Circuit Current (Isc)	[A]	9.56	9.60	Frame Type
Max Power Voltage (Vmp)	[V]	39.5	40.2	Cable Type / L
Max Power Current (Imp)	[A]	9.13	9.20	Connector Typ
Power Tolerance	[%]	-0/+3	-0/+3	Junction Box
				Front Load
Performance at NOCT (800)	W/m², 2	20°C Amb, Wind 1 n	n/s, AM 1.5)	Rear Load
Max Power (Pmax)	[W]	265	272	* Refer to Solaria Inst
Open Circuit Voltage (Voc)	[V]	44.8	45.4	Cartification
Short Circuit Current (Isc)	[A]	7.71	7.74	Certifications
Max Power Voltage (Vmp)	[V]	36.3	37.0	Certifications
Max Power Current (Imp)	[A]	7.30	7.35	
				Fire Type (UL 1
Temperature Characterist	ics			Power & Produ
NOCT		[°C]	45 +/-2	* Warranty details at
Temp. Coeff. of Pmax		[% / °C]	-0.39	Packaging
Temp. Coeff. of Voc		[% / °C]	-0.29	Stocking Moth
Temp. Coeff. of Isc		[% / °C]	0.04	Stacking Met
				PCS / Pallet
Design Parameters				Pallet Maight
Operating temperature		[°C]	-40 to +85	Pallet weight Dallete / 40 ft
Max System Voltage		[V]	1000	Pallets / 40-11
Max Fuse Rating		[A]	15	PCS / 40-11 C0
Max Fuse Rating Bypass Diodes		[A] [#]	15 4	PCS / 40-11 CO
Max Fuse Rating Bypass Diodes IV Curves vs. Irradiance (3	370W F	[A] [#] Panel)	15 4	PCS / 40-11 CO
Max Fuse Rating Bypass Diodes IV Curves vs. Irradiance (3	370W F	[A] [#] Panel)	15 4	
Max Fuse Rating Bypass Diodes IV Curves vs. Irradiance (3	370W F	[A] [#] 1000 W/m ²	15 4	
Max Fuse Rating Bypass Diodes	370W F	[A] [#] 1000 W/m ²	15 4	
Max Fuse Rating Bypass Diodes	370W F	[A] [#] 2000 W/m ²	15 4	PCS / 40-11 CO
Max Fuse Rating Bypass Diodes	370W F	[A] [#] 1000 W/m ²	15 4	PCS / 40-11 CO
Max Fuse Rating Bypass Diodes	370W F	[A] [#] 1000 W/m ² 800 W/m ²	15 4	PCS / 40-11 CO
Max Fuse Rating Bypass Diodes	370W F	[A] [#] 1000 W/m ² 600 W/m ²	15 4	PCS / 40-11 CO
Max Fuse Rating Bypass Diodes	370W F	[A] [#] 1000 W/m ² 600 W/m ²	15 4	PCS / 40-11 CO
Max Fuse Rating Bypass Diodes	370W F	[A] [#] 1000 W/m ² 600 W/m ² 400 W/m ²	15 4	PCS / 40-11 CO
Max Fuse Rating Bypass Diodes	370W F	[A] [#] 1000 W/m ² 600 W/m ² 600 W/m ²	15 4	PCS / 40-11 CO
Max Fuse Rating Bypass Diodes	370W F	[A] [#] 1000 W/m ² 600 W/m ² 400 W/m ² 200 W/m ²	15 4	(13.5m) (13
Max Fuse Rating Bypass Diodes	370W F	[A] [#] 7000 V/m ² 600 W/m ² 600 W/m ² 200 W/m ²	15 4	PCS / 40-11 CO
Max Fuse Rating Bypass Diodes	20 VOI	[A] [#] 1000 W/m ² 600 W/m ² 600 W/m ² 400 W/m ² 200 W/m ² 200 W/m ² 35 30 35	15 4 4 40 45 50	PCS / 40-11 CO
Max Fuse Rating Bypass Diodes	20 voi /arrapt	[A] [#] 1000 W/m ² 600 W/m ² 600 W/m ² 400 W/m ² 200 W/m ² 200 W/m ²	15 4	PCS / 40-11 CO
Max Fuse Rating Bypass Diodes	20 voi /arrant	[A] [#] 1000 V/m ² 600 W/m ² 600 W/m ² 400 V/m ² 200 W/m ² 200 W/m ² 200 W/m ² 200 W/m ²	15 4	PCS / 40-11 CO
Max Fuse Rating Bypass Diodes	20 Voi Voi Varrant	[A] [#] 1000 W/m ² 600 W/m ² 600 W/m ² 200 W/m ²	15 4	Issee Is
Max Fuse Rating Bypass Diodes	20 VOU VOU	[A] [#] 7000 W/m ² 600 W/m ² 600 W/m ² 600 W/m ² 600 W/m ² 200 W/m ²	15 4	(13.9%) (13.9%) (13.9%) (13.9%) (14
Max Fuse Rating Bypass Diodes	20 Voi Voi Voi Voi	[A] [#] 7000 W/m ² 600 W/m ² 600 W/m ² 400 W/m ² 20 200 W/m ² 20 30 35 71AGE (V) 9 manship and performan Typical Tier 1 in	15 4	PCS / 40-IL CO
Max Fuse Rating Bypass Diodes	20 Vou	[A] [#] 2anel) 1000 W/m ² 600 W/m ² 600 W/m ² 600 W/m ² 200 W/m ²	15 4	PCS / 40-11 CO
Max Fuse Rating Bypass Diodes	20 Voi Voi Variant	[A] [#] 2000 W/m ² 600 W/m ² 600 W/m ² 600 W/m ² 200 W/m ² 20	15 4	PCS / 40-11 CO
Max Fuse Rating Bypass Diodes	20 voice voi	[A] [#] Panel) 1000 W/m ² 600 W/m ² 600 W/m ² 600 W/m ² 200 W/	15 4	PCS / 40-11 CO
Max Fuse Rating Bypass Diodes	20 Void Void Void Void Void Void Void Void	[A] [#] Panel) 1000 W/m ² 600 W/m ² 600 W/m ² 400 W/m ² 200 W/m ² 200 W/m ² 200 W/m ² 100 U/m ²	15 4	PCS / 40-11 CO
Max Fuse Rating Bypass Diodes	20 Void Void / January	[A] [#] Panel) 1000 W/m ² 600 W/m ² 600 W/m ² 400 W/m ² 20 200 W/m ² 20 200 W/m ² 20 30 35 7TAGE (V) 9 manship and performan Typical Tier 1 in	15 4	PCS / 40-IL CO

Product specifications are subject to change without notice.

PROPERTY ADDRESS: INSTALLER: TITLE: MODULE DATA SHEET Owner Name Installer Name Plat or House #, Street Name Plat or House #, Street Name PHASE City, State - Zip code City, State - Zip code LOT: ZONING: MAP 8





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/ Power Optimizer

OPTIMIZER MODEL (TYPICAL MODULE (Compat	TBILTY)	P300 (FOR 60-CELL MODULES)	P370 (FOR HIGH-POWE 60-CELL AND FOR 72-CELL MODULE	P404 R (FOR 60-CEL R 72-CELL, SI S) STRING	L AND HORT S)	P500 (FOR 96-CELL MODULES)	
INPUT								
Rated Input DC Power ⁽¹⁾			300	370	405		500	W
Absolute Maximum Input V (Voc at lowest temperature)	oltage		48	60		80		Vdc
MPPT Operating Range			8 - 48	8 - 60	12.5 - 8	:0	8 - 80	Vdc
Maximum Short Circuit Cur	rent (Isc)			11		10.1		Adc
Maximum Efficiency					99.5			%
Weighted Efficiency					98.8			%
Overvoltage Category					п			
OUTPUT DURING OP	ERATIO	N (POWER OP	TIMIZER CONNE	CTED TO OPERAT	ING SOLAREDG	E INVERTE	R)	
Maximum Output Current					15			Adc
Maximum Output Voltage				60	85		60	Vdc
OUTPUT DURING STA	NDBY (P	OWER OPTIM	ZER DISCONNEC	TED FROM SOLAR	EDGE INVERTER	OR SOLAR	EDGE INVERTER	OFF)
afety Output Voltage per F	Power Opt	mizer			1 ± 0.1			Vdc
TANDARD COMPLI	ANCE	-						
:MC				FCC Part15 Class B,	IEC61000-6-2, IEC61	000-6-3		
Safety		_		IEC62109-1 (class II safety), UL174	1		_
RoHS					Yes			
Fire Safety				VDE-AR-E	2100-712:2013-05			
INSTALLATION SPEC	IFICATIO	ONS						
Maximum Allowed System	Voltage				1000			Vdc
Dimensions (W x L x H)			139 x 165 x 40	0 / 5.5 x 6.5 x 1.6	139	x 165 x 48 / 5	5.5 x 6.5 x 1 .9	mm / in
Veight (including cables)		-	750 / 1.65	775 / 1.7	895 / 2	.0	870 / 1.9	gr / lb
nput Connector					MC4 ⁽²⁾			
nput Wire Length		-		(0.16 / 0.52			m / ft
Dutput Connector					MC4			
Output Wire Length			0.9 / 2.95		1.2 / 3.	9		m / ft
Operating Temperature Rar	nge ⁽³⁾			-40 - +	85 / -40 - +185			°C / *F
Protection Rating				IP6	8 / NEMA6P			
Relative Humidity					0 - 100			%
For other connector types ple For ambient temperature above PV SYSTEM DESIGN US A SOLAREDGE INVERT	sic will hold ase contact : re +85°C / +	SilvEdge. 185°F power de-ratir SINGLE PHAS HD-WAVE	ng is applied. Refer to Pov E SINGLE PHASE	ver Optimizers Temperature THREE PHASE	THREE PHASE FOR 277/480V GRID	ote for more de	etails.	Supported
Minimum String Length (Power Optimizers)	P300/ P370/ P500 ⁽⁵⁾		8	16	18			<u>trame</u> crosssectio
Mariana China Lanath (D	P404		6	14 (13 with SE3K)	14			
Maximum String Length (Po Optimizers)	ower		25	50	50			
Maximum Power per String		5700	5250	11250(6)	12750	W		1.1-2.2mm
Parallel Strings of Different	Lengths			Yes				±0.04-0.09in ⊤
It is not allowed to mix P404 w The P300/P370/P500 cannot b ESIX-SE10K datasheet). For SE27.6K, SE55K, SE82.8K: It maximum power difference bet	ith P300/P3 e used with is allowed to ween the st	0/P500 in one string the SE3K three phase b install up to 13,500 rings is up to 2,000W	inverter (available in son W per string when 3 strin ; inverter max DC power:	ne countries; refer to Three gs are connected to the inv 37,250W	Phase Inverter erter and when the		⊶	

PV SYSTEM DESIGN U A SOLAREDGE INVERT	ISING Fer ⁽⁴⁾	SINGLE PHASE HD-WAVE	SINGLE PHASE	THREE PHASE	THREE PHASE FOR 277/480V GRID	
Minimum String Length (Power Optimizers)	P300/ P370/ P500 ⁽⁵⁾	8		16	18	
· · · · · · · · · · · · · · · · · · ·	P404	6		14 (13 with SE3K)	14	
Maximum String Length (F Optimizers)	ower	2!	5	50	50	
Maximum Power per String	g	5700	5250	11250(6)	12750	W
Parallel Strings of Different or Orientations	t Lengths		Y	es		





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Single Phase Inverter with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US



Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- / Built-in module-level monitoring I Record-breaking efficiency

Extremely small

I Outdoor and indoor installation

Class 0.5 (0.5% accuracy)

- Fixed voltage inverter for longer strings
- / Integrated arc fault protection and rapid shutdown for / Optional: Revenue grade data, ANSI C12.20 NEC 2014 and 2017, per article 690.11 and 690.12
- / UL1741 SA certified, for CPUC Rule 21 grid compliance

solaredge.com



INVERTERS

/ Single Phase Inverter with HD-Wave Technology for North America SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/

SE7600H-US	5 / SE100	000H-US	/ SE1140	0H-US				
	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-U	S SE11400H-US	
OUTPUT								
Rated AC Power Output	3000	3800 @ 240V	5000	6000 @ 240V	7600	10000	11400 @ 240V	VA
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
AC Output Voltage MinNomMax. (211 - 240 - 264)	~	~	~	✓	✓	~	~	Vac
AC Output Voltage MinNomMax. (183 - 208 - 229)	÷	~	-	✓	-	-	✓	Vac
AC Frequency (Nominal)				59.3 - 60 - 60.5 ⁽¹⁾				Hz
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	A
Maximum Continuous Output Current @208V	-	16	-	24	-	-	48.5	A
GFDI Threshold				1				A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds				Yes				
INPUT								-
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	W
Maximum DC Power @208V	-	5100	-	7750	-		15500	W
Transformer-less, Ungrounded				Yes				
Maximum Input Voltage				480				Vdc
Nominal DC Input Voltage		3	380			400		Vdc
Maximum Input Current @240V ⁽²⁾	8.5	10.5	13.5	16.5	20	27	30.5	Adc
Maximum Input Current @208V ⁽²⁾	~	9	-	13.5	-	-	27	Adc
Max. Input Short Circuit Current				45				Adc
Reverse-Polarity Protection				Yes				
Ground-Fault Isolation Detection				600kg Sensitivity				
Maximum Inverter Efficiency	99				99.2		99 @ 240V	%
CEC Weighted Efficiency				99			98.5 @ 208V	%
Nighttime Power Consumption				< 2.5				W
ADDITIONAL FEATURES								
Supported Communication Interfaces			RS485, Ethern	et, ZigBee (optional),	Cellular (optional)			
Revenue Grade Data, ANSI C12.20				Optional ⁽³⁾				
Rapid Shutdown - NEC 2014 and 2017 690.12			Automatic Rap	oid Shutdown upon A	C Grid Disconnect			
STANDARD COMPLIANCE								
Safety		UL174	1, UL1741 SA, UL16991	3, CSA C22.2, Canadi	an AFCI according to	T.I.L. M-07		
Grid Connection Standards			IE	EE1547, Rule 21, Rule	14 (HI)			
Emissions				FCC Part 15 Class	В			
INSTALLATION SPECIFICATIO	NS							
AC Output Conduit Size / AWG Range			1* Maximum / 14-6 A	WG		1" Maxim	um /14-4 AWG	
DC Input Conduit Size / # of Strings / AWG Range		1" Max	rimum / 1-2 strings / 1	4-6 AWG		1" Maximum / 1	-3 strings / 14-6 AWG	
Dimensions with Safety Switch (HxWxD)		17.70	x 14.6 x 6.8 / 450 x 3	70 x 174		21.3 x 14.6 x 7	.3 / 540 x 370 x 185	in / mm
Weight with Safety Switch	2	2 / 10	25.1 / 11.4	26.	2 / 11.9	38	3.8 / 17.6	lb / kg
Noise		<	< 25	S. S. S. S.		<50		dBA
Cooling			a a second	Natural Convectio	n			
Operating Temperature Range			-13 to +140	/ -25 to +60 ⁽⁴⁾ (-40°F	/ -40°C option) ⁽⁵⁾			°F/°C
Protection Rating			NEMA	4X (Inverter with Saf	ety Switch)			
 For other regional settings please contact Sol ⁽ⁿ⁾ A higher current source may be used; the hin ⁽ⁿ⁾ Revenue grade inverter P/N: SExoxH-US000 ⁽ⁿ⁾ For power de-rating information refer to: http ⁽ⁿ⁾ -40 version P/N: SExoxH-US000NNU4 ⁽ⁿ⁾ SolarEdge Technologies, Inc. All rights reserved. St other trademarks mentioned herein are trademarks or attrademarks to trademarks or attrademarks to the set of the	arEdge support rerter will limit its inpu NNC2 os://www.solaredge.co DLAREDGE, the SolarEdg of their respective owner	it current to the values sta om/sites/default/files/se-te le logo, OPTIMIZED BY SOLAF s. Date: 03/2019/V01/ENG NZ	ted emperature-derating-not REDGE are trademarks or reg AM. Subject to change witho	e-na.pdf istered trademarks of Solart ut notice.	dge Technologies, Inc. All		Ro	HS
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