

6.6 kW SOLAR PHOTOVOLTAIC SYSTEM (TIER 1)

MIAMI FRIENDS, INC. 1185 SUNSET ROAD, CORAL GABLES, FL 33143



CONTRACTOR

GOLDIN SOLAR, LLC
109 US HWY No. 1
VERO BEACH, FLORIDA 32960
1382 NW 78TH AVE
DORAL, FL 33126
(305) 469-9790
permitting@goldinsolar.com
www.GoldinSolar.com

SOLAR LICENSE: CVC56965
ELECTRICAL LICENSE: EC13008547
ROOFING LICENSE: CCC1331878

AHJ: CITY OF CORAL GABLES
UTILITY: FPL

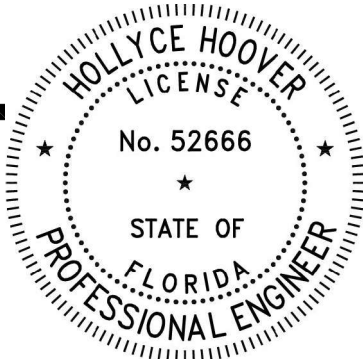
SCOPE

GRID-TIED (TIER 1)
6.6 kW SOLAR PHOTOVOLTAIC

MIAMI FRIENDS, INC

1185 SUNSET ROAD
CORAL GABLES 33143
PN: P2008-126-MIA-MHD-PVO

ENGINEER OF RECORD



PLAN FORMAT: ANSI B / TABLOID

DESIGN: DJB
CHECK: HLH

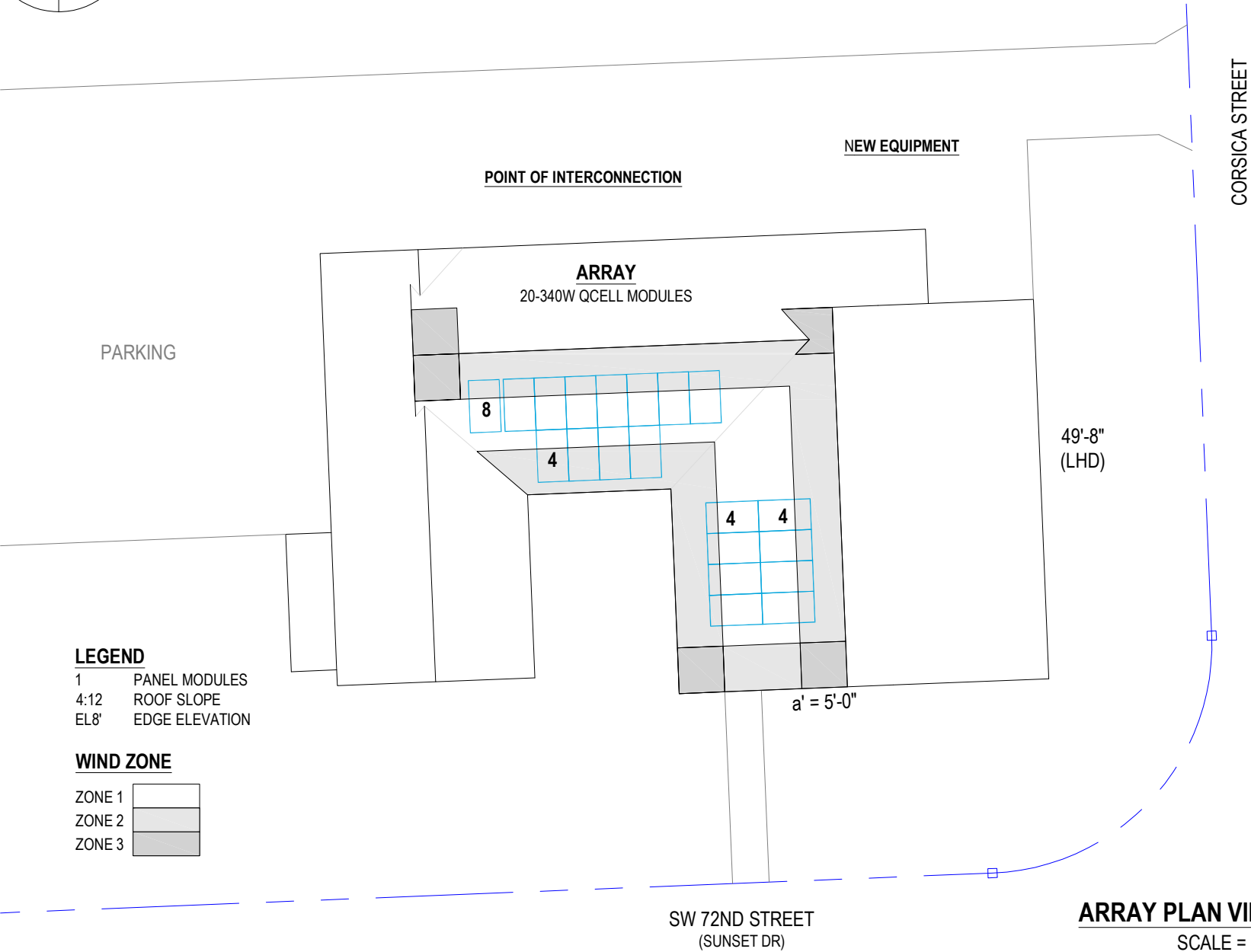
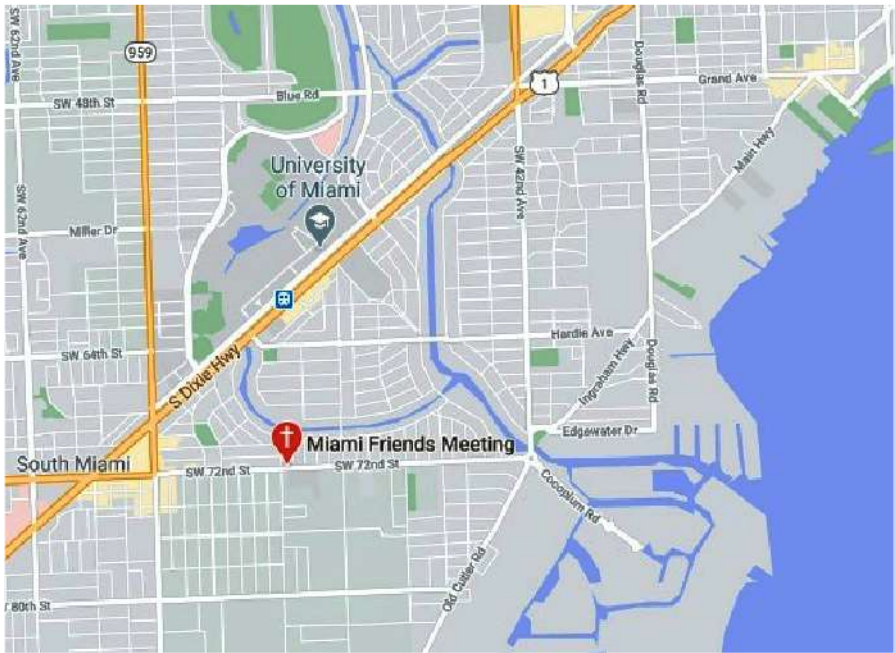
DATE: 23 NOV 2020
REVISED:

COVER & SITE DATA

G-001

(SHEET 1 OF 8)

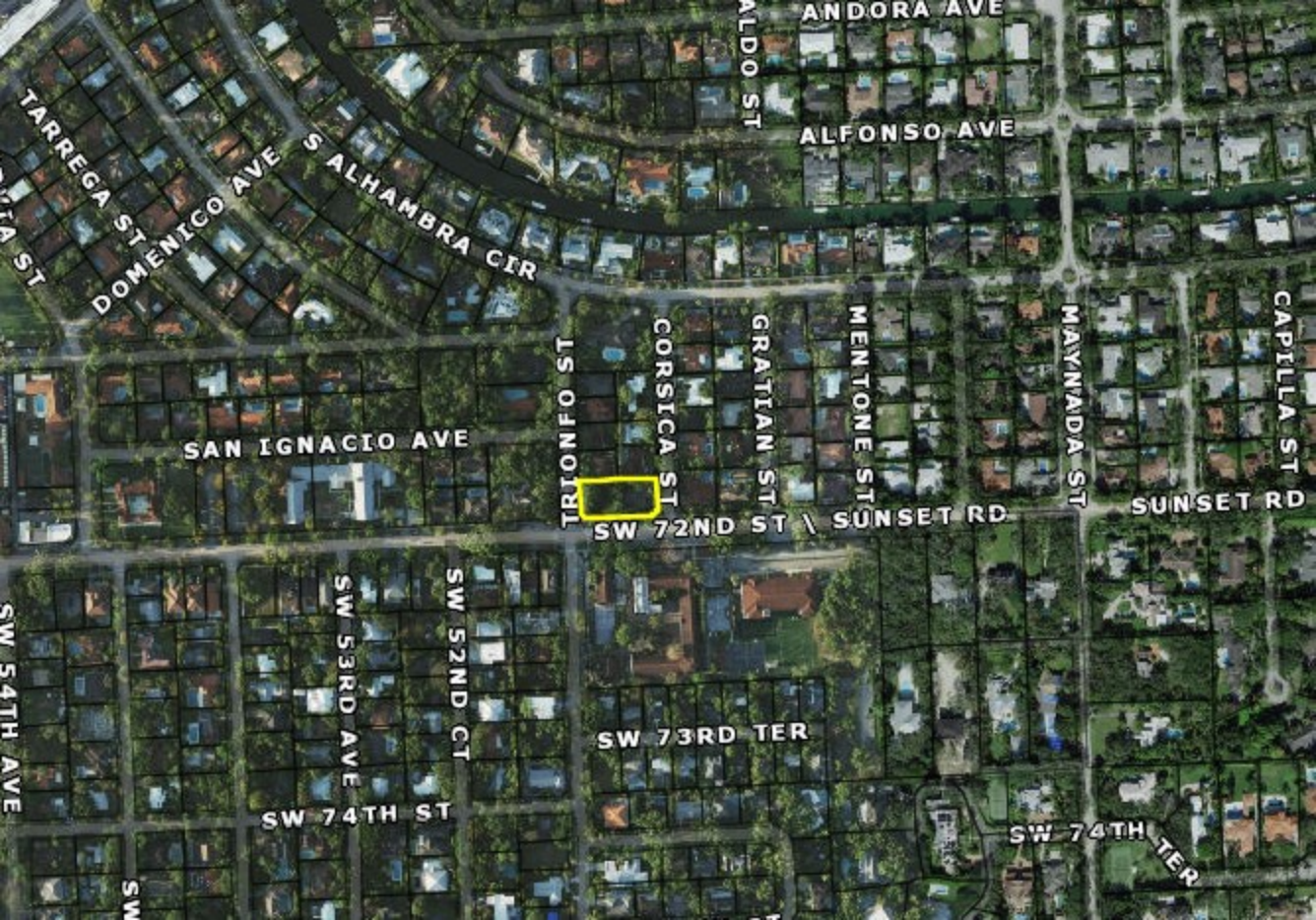
SHEET INDEX	
SHEET	TITLE
G-001	COVER & SITE DATA
S-001	ARRAY PLAN
S-002	RAIL DETAILS
S-003	ATTACHMENT DETAILS
E-001	RISER & SCHEDULES
E-002	WARNING LABELS
E-003	MODULE & METER SPECIFICATIONS
E-004	OPTIMIZER & INVERTER SPECIFICATIONS



PROPERTY INFORMATION	
OWNER	MIAMI FRIENDS INC
FOLIO	03-4130-008-0210
LAND AREA	0.46 ACRES
PROPERTY USE	0100 SINGLE FAMILY - GENERAL
LEGAL DESC	CORAL GABLES RIVIERA SEC 13 LOTS 10-11-12-13 BLK 221

CODE TABLE	
STRUCTURAL	2015 IBC/IEBC/IRC, FBCR2017
ELECTRICAL	2014 NEC, 2017 IEC, FBCR2017
FIRE SAFETY	NFPA70/70A, FBCR2017, 2015IEC
INVERTER / OPTIMIZER	UL1741SA, UL1703
ENERGY / STORAGE	UL1703, UL1642, UL1741, UL1973, UL9540, IEEE1547, UN38.3
RACKING	UL2703

WIND LOADS				
ANALYSIS METHOD	ASCE 7-10 C&C	ZONE	COEFFICIENT	PSF
DESIGN SPEED	175 Vmph	1	0.9 / -0.9	32 / -32
STRUCTURE CATEGORY / TYPE	C / II-ENCL	2	0.9 / -1.5	32 / -54
ZONE 3 (a' = 10% LHD)	5'-0"	3	0.9 / -2.4	32 / -86
VELOCITY PRESSURE (Q): $0.00256K_zK_{zt}K_DV^2 =$	60 PSF	$K_z / K_{zt} / K_D$	0.9 / 1.0 / 0.85	
ALLOWABLE STRESS DESIGN (ASD): $60\% \times Q =$	36 PSF	ALLOWABLE MODULE PRESSURE (+/-)	75 / 56	
MODULE TEST / DESIGN LOAD (+ PSF)	113 / 75	MODULE TEST / DESIGN LOAD (- PSF)	84 / 56	



TARREGA ST
DOMENICO AVE
S ALHAMBRA CIR
ALDO ST
ANDORA AVE
ALFONSO AVE
CAPILLA ST
MAYNADA ST
SUNSET RD
MENTONE ST
GRATIAN ST
CORSICA ST
TRIONFO ST
SAN IGNACIO AVE
SW 72ND ST \ SUNSET RD
SW 73RD TER
SW 74TH ST
SW 54TH AVE
SW 53RD AVE
SW 52ND CT







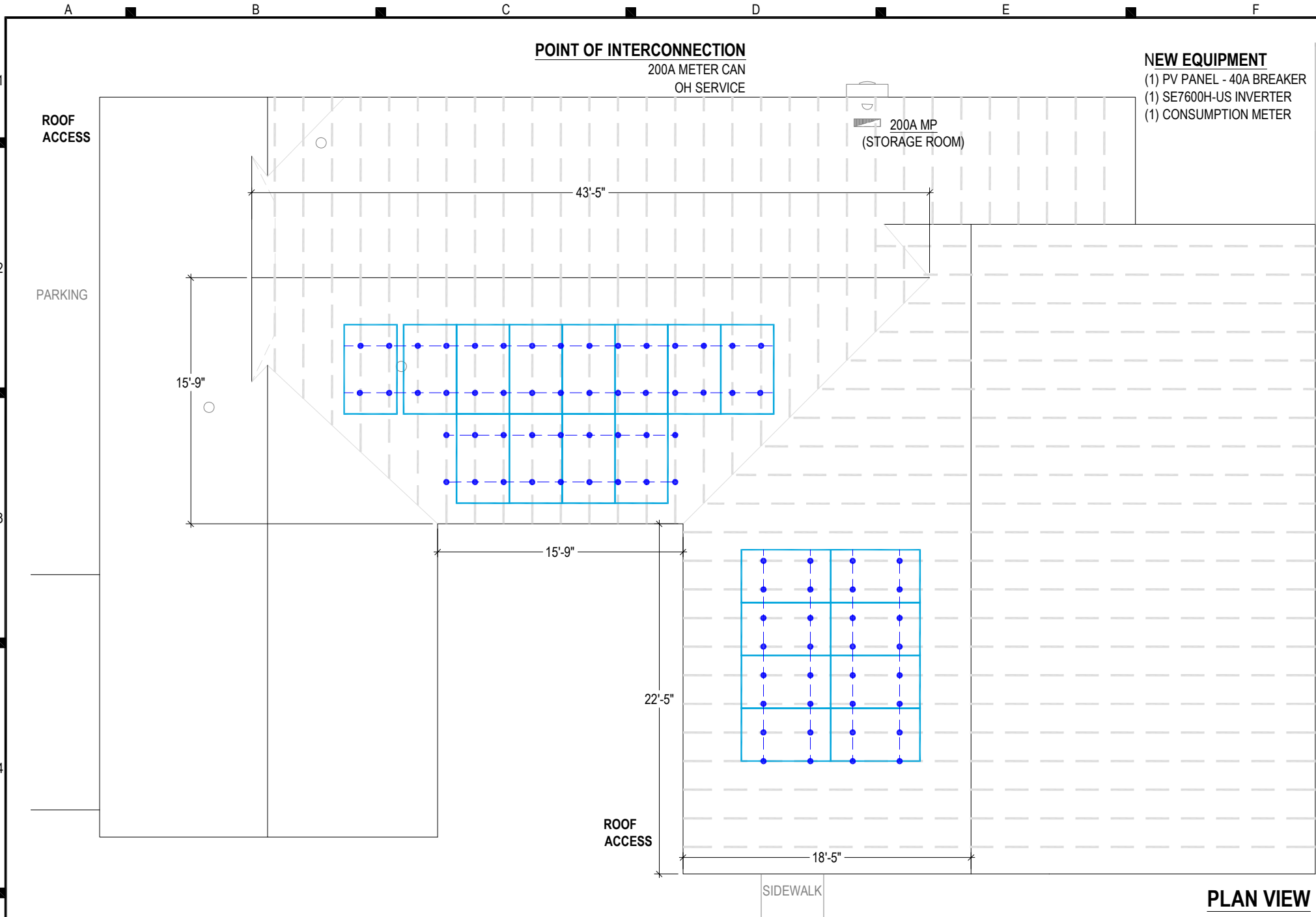






**LOVE KNOWS
NO BORDERS**
A moral call for migrant justice
American Friends
Service Committee

QUAKER
MEETING
ALL WELCOME



CORAL GABLES NOTES:

1. CONDUIT AND CONDUCTORS SHALL BE CONCEALED BENEATH ARRAYS USING ATTIC RUNS OR AS APPROVED WHEN MODULES ARE OVER AN EXPOSED RAFTER AREA.
2. WALL PENETRATIONS SHALL BE SEALED WITH NON-SHRINK GROUT/EXTERIOR GRADE ELASTOMERIC SEALANT.
3. CONDUIT SHALL BE PAINTED TO MATCH HOUSE COLOR.
4. ONE STAND/RAIL/TRUSS & MODULES SHALL BE SUBSTANTIALLY OUT OF ZONE 3 ACCORDING TO STRUCTURAL PLAN REVIEW, PRESCRIPTIVE REQUIREMENT.

GENERAL NOTES:

1. ABBREVIATIONS OTHER THAN AS LISTED ARE INDUSTRY STANDARD.
2. ROOF CONDITION SHALL BE VERIFIED BY PHYSICAL INSPECTION AND ACCEPTED BY GOLDIN SOLAR PRIOR TO COMMENCEMENT.
3. CONTRACTORS AND SUB-CONTRACTORS SHALL BE STATE-LICENSED AND AS OTHERWISE REQUIRED BY AHJ; NO UNLICENSED ACTIVITY OR WORKERS SHALL BE ALLOWED ON JOBSITE.
4. ALTERATION OF ROOF OR OTHER MOUNTING STRUCTURE AFTER SURVEY SHALL REQUIRE ADDITIONAL SURVEY OR WRITTEN APPROVAL BY THE EOR AND OWNER.
5. BEST MANAGEMENT PRACTICES SHALL BE EXERCISED TO MAINTAIN A SAFE AND CLEAN JOBSITE FOR PARKING, TRASH REMOVAL, STORAGE, SOUND, UTILITIES AND TIMES OF WORK.
6. NO WORK SHALL BE PERFORMED IN RIGHT-OF-WAY OR EASEMENTS WITHOUT WRITTEN PERMISSION FROM THE AHJ, EASEMENT HOLDER AND OWNER.
7. ANY DAMAGE TO PROPERTY OR BUILDINGS, NOT UNDER THE CONTROL OF GOLDIN SOLAR, SHALL BE REMEDIED BY THE OWNER.
8. IN THE EVENT OF WEATHER AND CIRCUMSTANCES THAT COULD MATERIALLY AFFECT THE STRUCTURE, WORKING CONDITIONS OR INSTALLATION, GOLDIN SOLAR SHALL PERFORM A RE-INSPECTION WITH OTHER CONTRACTORS/SUB-CONTRACTORS AND CONFIRM CONDITIONS; PROJECT SCHEDULE SHALL BE ADJUSTED TO INCLUDE REQUIRED PLAN REVISIONS.

ROOF FIRE SAFETY NOTES: (NFPA 11.12.2.2.1.3)

1. FIRE PROTECTION PROCEDURES SHALL BE N ACCORDANCE WITH NEC 2014, A 690.9.
2. WORK SHALL BE INSPECTED PRIOR TO COVER.
3. ACCESS POINT(S) ARE SHOWN AND LOCATED FOR FIRE DEPT. LADDER(S) CLEAR OF OPENINGS/OBSTRUCTIONS.
4. WORK SHALL BE PERFORMED IN ACCORDANCE WITH EXISTING ROOF SAFETY RATING (CLASS A). (UL 790 / ASTM E108)

NEW EQUIPMENT

- (1) PV PANEL - 40A BREAKER
- (1) SE7600H-US INVERTER
- (1) CONSUMPTION METER

LEGEND

- MP MAIN PANEL
- RAIL W/ ATTACHMENT
- TRUSS
- SOLAR ROOF JACK
- OVERHEAD WEATHERHEAD
- PLUMBING VENT

INSTALLER NOTE:

ATTEMPT TO LOCATE STANDS UNDER MODULES AS POSSIBLE.

ROOF CONSTRUCTION

TYPE	GABLE
SLOPE	3:12
MEAN ROOF HT (± FT)	12'-0"
FRAMING	RAFTER 22" OC
SHEATHING	PLYWOOD/OSB
SURFACE	FLAT CONC. TILE
FIRE RATING	A
DIMENSION SOURCE	FIELD-VERIFIED

ARRAY PROPERTIES

MODULE	Q.PEAK DUO G5-G7 330W
QUANTITY	20
DIMENSIONS	66.3" x 39.4" x 1.3"
SURFACE (SF)	18
WEIGHT (LB)	41
ARRAY AREA (SF) =	360
ARRAY WT (LB) =	1190
RAIL SYSTEM	SNAPnRACK UR-60 (BIN 8)
ATTACHMENTS	80
TYPE	STANDOFF
RAIL SPAN MAX. (IN)	92" (Z1) 68" (Z2), SEE: S-002
HARDWARE	SEE: MATERIAL SCHEDULE, S-003
FASTENING	5/16" Ø x 4" LAG SCREWS
LIQUID FLASHING	RX-100 FLASHING CEMENT



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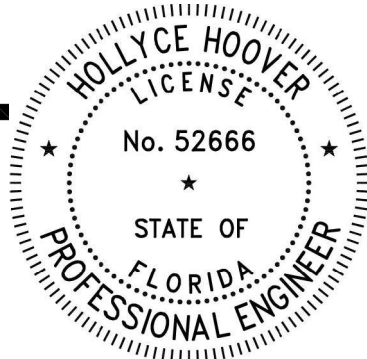
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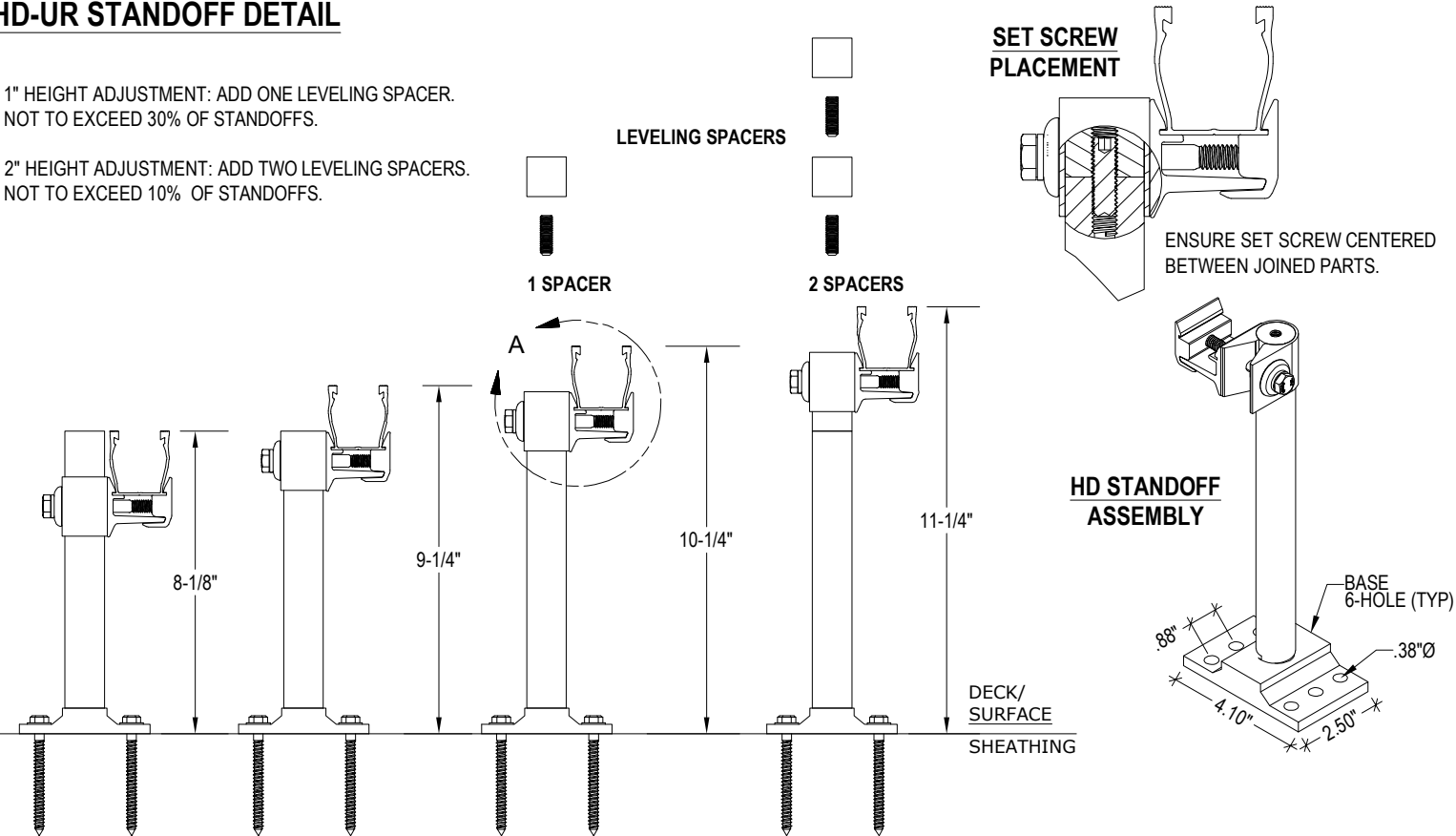
**ARRAY PLAN
S-001**

(SHEET 2 OF 8)

HD-UR STANDOFF DETAIL

1" HEIGHT ADJUSTMENT: ADD ONE LEVELING SPACER. NOT TO EXCEED 30% OF STANDOFFS.

2" HEIGHT ADJUSTMENT: ADD TWO LEVELING SPACERS. NOT TO EXCEED 10% OF STANDOFFS.



ROOF XTENDER® RX-100 FLASHING CEMENT
(SEE TDS FOR APPLICATION TEMP RANGE)

INSTALLATION INSTRUCTIONS

1. LOCATE TOP CHORD OF TRUSS/RAFTER; SNAP HORIZ/VERT LINES TO MARK ATTACHMENT POINTS.
2. PREP SURFACES; REMOVE DIRT, OIL, GREASE, FOREIGN MATERIALS PRIOR TO APPLICATION.
3. APPLY 1/4" BEAD AROUND BTM OF HD BASE PLATE, IN 3" Ø SEMI-CIRCLE ON BTM OF FLASHING AND OATEY PLATES, TO HOLES & TO LAG SCREW TOPS WORK CAREFULLY & QUICKLY; FAST SET-UP.

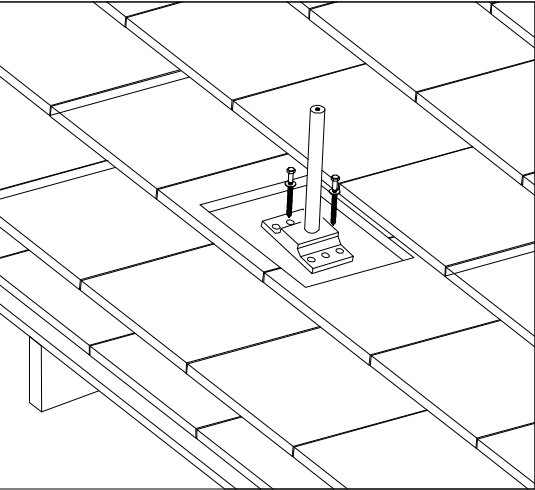
COMPLIANCE: ASTM D3409, ASTM D6511, ASTM D4586. MIAMI-DADE COUNTY PRODUCT CONTROL NOA NO.: 18-0411.03, EXPIRATION DATE: 02/01/21, APPROVAL DATE: 01/03/19, PAGE 9 OF 13

OPTIONAL: SOLAR ROOF JACK NOTES (IGC 339-2016 IAPMO STANDARD-COMPLIANT)

1. CUT DOWN VENT PIPE SO EXTENDS BEYOND GASKET APPROX. 1.5", TO ENSURE AIR FLOW.
2. CAP SHALL REMAIN REMOVABLE; NO SOLVENT WELDING.
3. PIPE SUPPORTS AND CLAMPS SHALL BE SECURELY ATTACHED TO RAILS WITH GALVANIZED RING CLAMPS OR TO TRUSS BY GALVANIZED OR SS BRACKETS WITH 5/16" X 4" LAG SCREWS. INSURE SUPPORTS ALLOW ROOF SHEET FLOW.
4. PIPE TERMINAL ELEVATION (HT ABOVE SURFACE) SHALL BE AT OR ABOVE EXISTING TERMINUS.



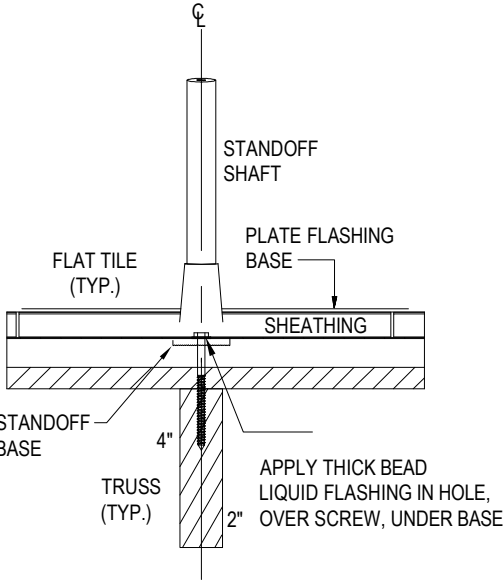
STANDOFF BASE
INSTALLATION



INSTALLATION STEPS

1. CUT/CORE TILE TO DECK TO LOCATE FIRST STAND POSITION.
2. CLEAN DUST AND DEBRIS FROM AREA.
3. DRILL PILOT HOLES ALIGNED TO BASE THROUGH DECK INTO TRUSS.
4. RUN BEAD OF LIQUID FLASHING INTO PILOT HOLE AND AROUND OUTER EDGE OF BASE.
5. FASTEN BASE WITH 2 LAG SCREWS @ 2-1/2" MIN. EMBEDMENT INTO TRUSS. TORQUE SCREWS ACCORDING TO MANUAL.
6. COVER SCREW TOPS WITH LIQUID FLASHING.
7. REPAIR ANY TEARS OR GAPS IN UNDERLAYMENT LESS THAN 1/4" WITH LIQUID FLASHING. (FOR LARGER RIPS OR GAPS, USE TARGET OR TAPE PURSUANT TO MANUFACTURER'S REPAIR INSTRUCTIONS.)
8. BACKFULL CAVITY WITH FOAM.
9. RUN 1/4" BEAD LIQUID FLASHING AROUND TOP AND SIDES OF BOTTOM OF SOFT-ROLLED FLASHING.
10. PLACE SOFT-ROLLED FLASHING OVER POST.
11. FINISH WITH SNAPRACK FLANGED GASKET.

MODULE MOUNTING
SECTION



MATERIALS SCHEDULE

ITEM	MANUFACTURER	Part #:	UNITS
UR-60 RAIL, 168"	SNAPnRACK	232-02482	10
UR-60 RAIL SPLICE, SILVER	SNAPnRACK	242-01271	2
BONDING MID CLAMP, BONDING CHANNEL NUT*	SNAPnRACK	242-02054	30
GROUNDING LUG ASSEMBLY (3-PIECES)	SNAPnRACK	242-02101	4
UR-60 END CAP	SNAPnRACK	232-02484	16
UNIV END CLAMP ASSEMBLY	SNAPnRACK	242-02215	16
WIRE RETENTION CLIP, COMPOSITE, BLACK (20/PK)	SNAPnRACK	232-01106	1
OPTIMIZER KIT: CHANNEL NUT, BOLT WASHER	SNAPnRACK	242-92093	20
ULTRA RAIL HD STANDOFF KIT, 7" BASE & SPACERS	SNAPnRACK	242-01265	80
5/16" Ø X 4" STAINLESS STEEL LAG	SNAPnRACK	516401	160
FLASHING - SOFT WITH ROLLED EDGES	SNAPnRACK	175-0500	80
RX100 LIQUID FLASHING, NOA #18-0411.03 (12-PK)	TRI-BUILT		1
SOLAR ROOF JACK*	SOLAR ROOF JACK	SLAR15	1

* 32 BONDING MC IF USE OPTIONAL SOLAR ROOF JACK



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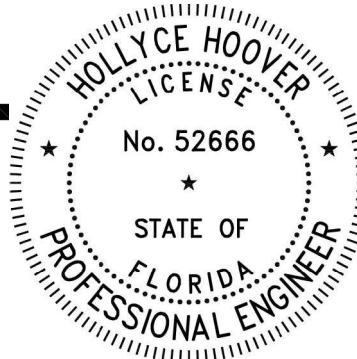
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CHECK: HLH

DATE: 23 NOV 2020
REVISED:

ATTACHMENT DETAILS

S-003

(SHEET 4 OF 8)



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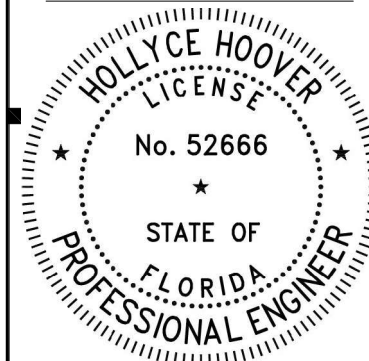
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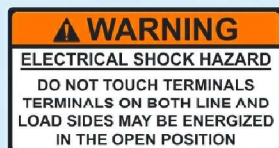
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WARNING LABELS E-002

(SHEET 6 OF 8)

1 Combiner Box / Circuits / Conduit Combiner Box / Enclosures / EMT Enclosures



NEC 690.17(E) | Part No. 596-00497

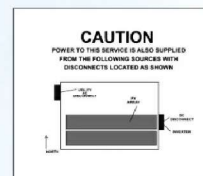


NEC 690.35(F) | Part No. 596-00588



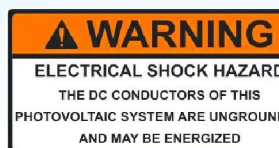
NEC 110.27(C) & OSHA 1910.145(f)(7)
Part No. 596-00499

2 Building / Structure



NEC 690.56(B) | Part No. 558-00350

3 DC Disconnect / Breaker / Recombiner Box



NEC 690.35(F) | Part No. 596-00588



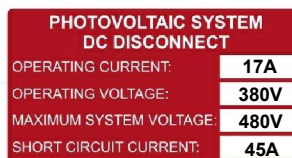
NEC 690.17(E) | Part No. 596-00496



FOR MARKING DC BACKUP SYSTEMS
Part No. 596-00240



IFC 605.11.3, NEC 690.15, NEC 690.13(B)
Part No. 596-00238



NEC 690.53 | Part No. 596-00241



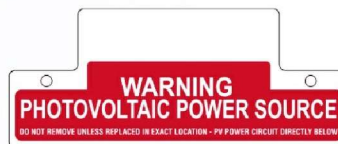
NEC 690.53 | Part No. 596-00253

4 EMT / Conduit Raceways

*(Reflective Material Required)



NEC 690.31(G)(3)(4) | Part No. 596-00206



NEC 690.31(G)(X) | Part No. 596-00257

5 Inverter



NEC 690.5(C) | Part No. 596-00498



NEC 690.31(I) | Part No. 596-00590



NEC 690.54 | Part No. 596-00239

6 Production / Net Meter



NEC 690.5(C) | Part No. 596-00498

7 Production / Net Meter (Bi-directional)



NEC 690.15 & NEC 690.13(B) | Part No. 596-00613

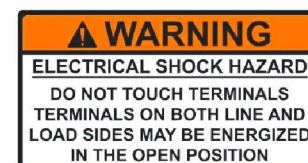


NEC 705.12(D)(3) & NEC 690.64
Part No. 596-00495

8 AC Disconnect / Breaker / Points of Connection



IFC 605.11.3, NEC 690.15, NEC 690.13(B)
Part No. 596-00237



NEC 690.17(E) | Part No. 596-00497



NEC 690.52 | Part No. 596-00252



NEC 690.13(B) | Part No. 596-00239

9 Breaker Panel / Pull Boxes



NEC 690.5(C) | Part No. 596-00498



NEC 690.17(E) | Part No. 596-00497

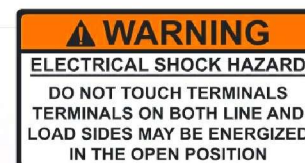


NEC 110.27(C) & OSHA 1910.145(f)(7)
Part No. 596-00499



NEC 690.54 | Part No. 596-00239

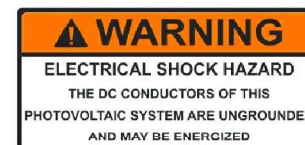
10 Main Service Disconnect



NEC 690.17(E) | Part No. 596-00497



NEC 110.27(C) | Part No. 596-00499



NEC 690.35(F) | Part No. 596-00588



NEC 690.10(C) | Part No. 596-00591



NEC 690.33(E)(2) | Part No. 596-00244



NEC 705.12(D)(3-4) & NEC 690.64
Part No. 596-00587



NEC 705.12(D)(3) & NEC 690.64 | Part No. 596-00495



NEC 705.12(D)(2)(3b) | Part No. 596-00589



NEC 690.15 & NEC 690.13(B) | Part No. 596-00243



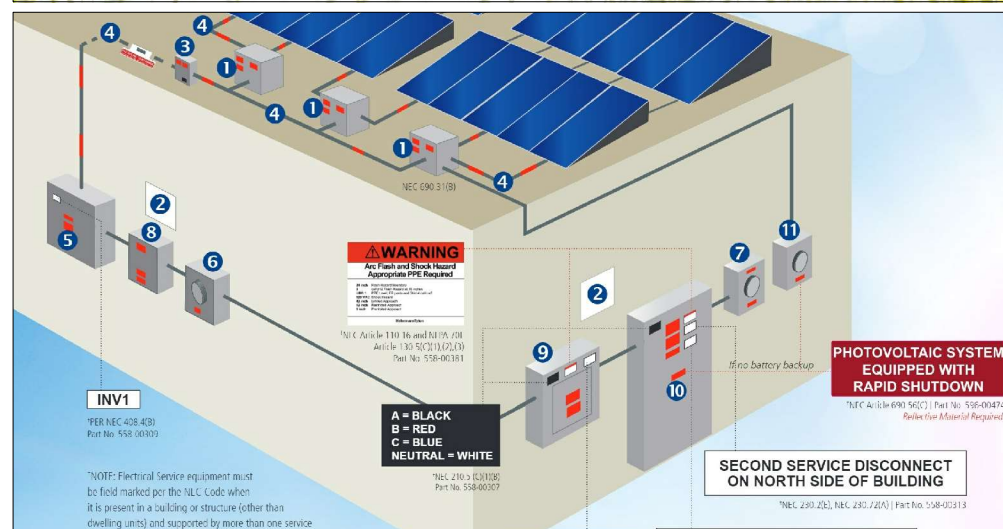
NEC 690.15 & NEC 690.13(B) | Part No. 596-00613

11 Main Service Disconnect / Utility Meter



NEC 690.15 & NEC 690.13(B) | Part No. 596-00243

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PURSUANT TO FLORIDA STATUTE 377.705 (REVISED 7/1/2017)

I, HOLLYCE HOOVER, PE (FL52666), AN ENGINEER LICENSED PURSUANT TO CHAPTER 471, CERTIFY THAT THE SOLAR PHOTOVOLTAIC ELECTRICAL SYSTEM AND COMPONENTS ARE DESIGNED AND APPROVED USING THE CODE REQUIREMENTS AND STANDARDS CONTAINED IN THE MOST RECENT VERSION OF THE FLORIDA BUILDING CODE.

GOLDIN SOLAR RECOGNIZES FLORIDA SOLAR ENERGY CENTER (FSEC) AS DEVELOPING STANDARDS FOR SOLAR ENERGY SYSTEMS MANUFACTURED OR SOLD IN FLORIDA BASED ON CURRENTLY AVAILABLE INFORMATION IN CONSULTATION WITH SCIENTISTS, ENGINEERS AND RESEARCHERS AND DEVELOPING CRITERIA FOR TESTING THE PERFORMANCE OF SOLAR ENERGY SYSTEMS.

LABEL POSTING REQUIREMENTS:

- ELECTRICIAN SHALL CONFIRM AND INSURE PROPER PLACEMENT OF WARNING LABELS THRU-OUT PV AND ENERGY STORAGE SYSTEM.
- ELECTRICIAN SHALL POST A COMPLETE CIRCUIT DIRECTORY LABEL IN NEW OR MODIFIED PANELS.
- ELECTRICIAN SHALL POST A WEATHER-RESISTANT LABEL WITH CONTRACTOR NAME AND PHONE NUMBER MONITORED 24/7/365 NEXT TO DISCONNECT.



Q CELLS Q.PEAK DUO-G7 325-335

MECHANICAL SPECIFICATION

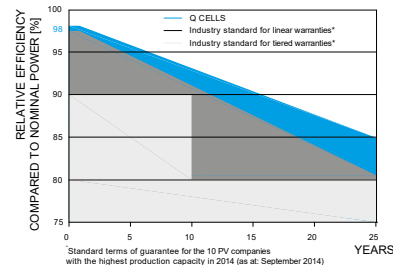
Format	1685 mm × 1000 mm × 32 mm (including frame)
Weight	18.7 kg
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6 × 20 monocrystalline Q.ANTUM solar half cells
Junction box	53-101 mm × 32-60 mm × 15-18 mm Protection class IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥ 1100 mm, (−) ≥ 1100 mm
Connector	Stäubli MC4, Hanwha Q CELLS HQC4; IP68

ELECTRICAL CHARACTERISTICS

POWER CLASS				325	330	335
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC1 (POWER TOLERANCE +5 W / -0 W)						
Minimum	Power at MPP1	PMPP	[W]	325	330	335
	Short Circuit Current1	ISC	[A]	10.10	10.15	10.21
	Open Circuit Voltage1	VOC	[V]	40.36	40.62	40.89
	Current at MPP	IMPP	[A]	9.61	9.67	9.72
	Voltage at MPP	VMPP	[V]	33.81	34.14	34.47
	Efficiency1	η	[%]	≥ 19.3	≥ 19.6	≥ 19.9
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT2						
Minimum	Power at MPP	PMPP	[W]	243.4	247.1	250.9
	Short Circuit Current	ISC	[A]	8.14	8.18	8.22
	Open Circuit Voltage	VOC	[V]	38.06	38.31	38.55
	Current at MPP	IMPP	[A]	7.57	7.61	7.65
	Voltage at MPP	VMPP	[V]	32.17	32.48	32.79

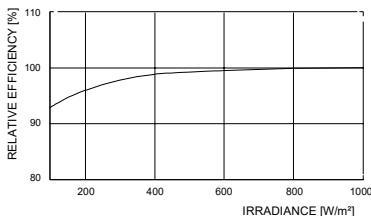
1Measurement tolerances PMPP ± 3 %; ISC; VOC ± 5 % at STC: 1000 W/m2, 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • 2800 W/m², NMOT, spectrum AM 1.5

Q CELLS PERFORMANCE WARRANTY



At least 98 % of nominal power during first year. Thereafter max. 0.54 % degradation per year. At least 93.1 % of nominal power up to 10 years. At least 85 % of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective country.



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m2).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of ISC	α	[% / K]	+0.04	Temperature Coefficient of VOC	β	[% / K]	−0.27
Temperature Coefficient of PMPP	γ	[% / K]	−0.35	Nominal Module Operating Temperature	NMOT	[°C]	43 ± 3

PROPERTIES FOR SYSTEM DESIGN

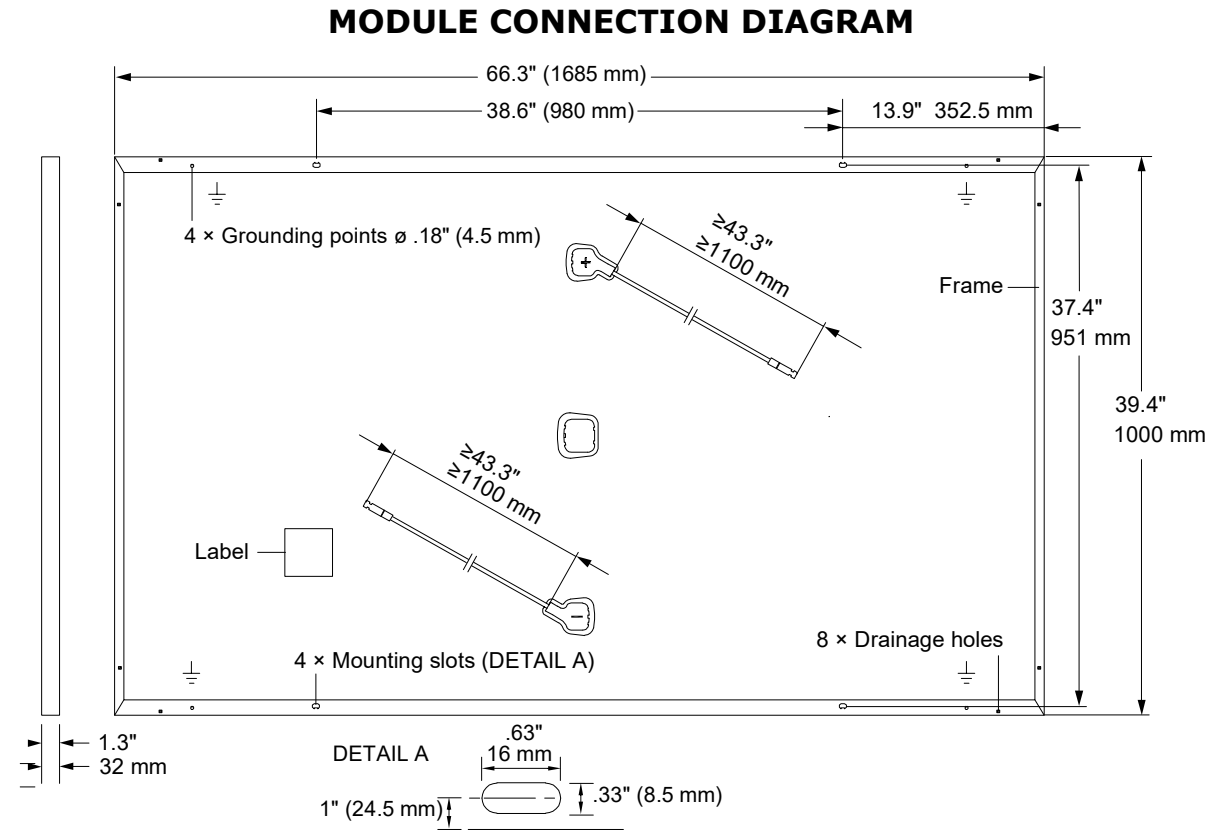
Maximum System Voltage	VSYS	[V]	1000	PV module classification	Class II
Maximum Reverse Current	IR	[A]	20	Fire Rating based on ANSI / UL 61730	C / TYPE 2
Max. Design Load, Push / Pull		[Pa]	3600 / 2667	Permitted Module Temperature	−40 °C - +85 °C
Max. Test Load, Push / Pull		[Pa]	5400 / 4000	on Continuous Duty	

QUALIFICATIONS AND CERTIFICATES

VDE Quality Tested,
IEC 61215:2016;
IEC 61730:2016.
This data sheet complies
with DIN EN 50380.

PACKAGING INFORMATION

Horizontal packaging	1730 mm 1040 mm 1208 mm 634.4 kg	30 pallets	26 pallets 32 modules
Vertical packaging	1760 mm 1150 mm 1190 mm 642 kg	30 pallets	26 pallets 32 modules



solar edge

Appendix D: Meter Technical Specifications

Appendix D: Meter Technical Specifications
CONSUMPTION METER

	SE-MTR240-2-200-S1	SE-MTR240-2-400-S1	UNITS
ELECTRICAL SERVICE			
Operating Voltage Range - Line to Line	211 - 264		Vac
AC Frequency	60		Hz
Grids Supported	L1 / L2 / N / PE		
Power Consumption (typ.)	1.2		W
COMMUNICATION			
Supported Communication Interfaces	RS485		
Response time	≤1		sec
Device ID (Modbus)	2		
ACCURACY (@ 77°F / 25°C, PF:0.7- 1)			
1% - 100% of Rated CT Current	±1		%
CURRENT TRANSFORMERS			
Rated RMS current ¹	200	400	
Dimensions (Internal ; External)	0.8 x 0.8 ; 2.4 x 2.4 / 20 x 20 ; 61 x 61	1.26 x 1.83 ; 3.3 x 4.5 / 32 x 46.5 ; 83.4 x 114	in/mm
STANDARD COMPLIANCE			
Safety	UL1741		
INSTALLATION SPECIFICATIONS			
Dimensions (HxWxD)	8.1 x 12.4 x 4.6 / 206.6 x 316 x 117.5		in / mm
Weight	3.9 / 1.8		lb / gm
Enclosure type	High impact, ABS and/or ABS/PC plastic UL 94V-0, IEC FV-0		
Operating Temperature Range	-22 to +131 / -30 to +55		°F / °C
Relative Humidity (noncondensing)	5 - 90		%
Protection Rating	NEMA Type 3R		
Conduit Entry Diameters	0.75 or 1/ 19 or 25		in / mm
Mounting Type	Wall mount		



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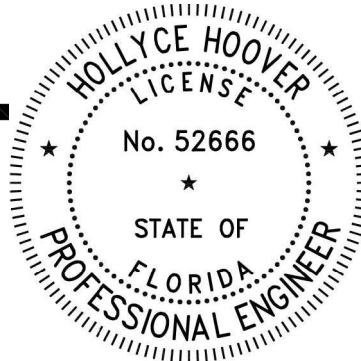
SCOPE

GRID-TIED (TIER 1)
6.6 kW SOLAR PHOTOVOLTAIC

MIAMI
FRIENDS, INC

1185 SUNSET ROAD
CORAL GABLES 33143
PN: P2008-126-MIA-MHD-PVO

ENGINEER OF RECORD



PLAN FORMAT: ANSI B / TABLOID

DESIGN: DJB
CHECK: HLH

DATE: 23 NOV 2020
REVISED:

MODULE & METER

E-003

(SHEET 7 OF 8)

Power Optimizer For North America

P320 / P340 / P370 / P400 / P405 / P505

Optimizer model (typical module compatibility)	P320 (for 60-cell modules)	P340 (for high- power 60-cell modules)	P370 (for higher- power 60 and 72-cell modules)	P400 (for 72 & 96- cell modules)	P405 (for thin film modules)	P505 (for higher current modules)	
INPUT							
Rated Input DC Power(1)	320	340	370	400	405	505	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	48		60	80	125(2)	83(2)	Vdc
MPPT Operating Range	8 - 48		8 - 60	8 - 80	12.5 - 105	12.5 - 83	Vdc
Max. Short Circuit Current (Isc)	11			10.1		14	Adc
Max. DC Input Current	13.75			12.63		17.5	Adc
Max. Efficiency			99.5				%
Weighted Efficiency			98.8			98.6	%
Overvoltage Category			II				
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)							
Maximum Output Current			15				Adc
Maximum Output Voltage			60		85		Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR SOLAREEDGE INVERTER OFF)							
Safety Output Voltage per Power Optimizer			1 ± 0.1				Vdc
STANDARD COMPLIANCE							
EMC			FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3				
Safety			IEC62109-1 (class II safety), UL1741				
RoHS			Yes				
INSTALLATION SPECIFICATIONS							
Maximum Allowed System Voltage			1000				Vdc
Compatible inverters			All SolarEdge Single Phase and Three Phase inverters				
Dimensions (W x L x H)	128 x 152 x 28 / 5 x 5.97 x 1.1		128 x 152 x 36 / 5 x 5.97 x 1.42	128 x 152 x 50 / 5 x 5.97 x 1.96	128 x 152 x 59 / 5 x 5.97 x 2.32		mm / in
Weight (including cables)	630 / 1.4		750 / 1.7	845 / 1.9	1064 / 2.3		gr / lb
Input Connector			MC4(3)				
Output Wire Type / Connector			Double Insulated; MC4				
Output Wire Length	0.95 / 3.0		1.2 / 3.9				m / ft
Input Wire Length			0.16 / 0.52				m / ft
Operating Temperature Range			-40 - +85 / -40 - +185				°C / °F
Protection Rating			IP68 / NEMA6P				
Relative Humidity			0 - 100				%

(1) Rated STC power of the module. Module of up to +5% power tolerance allowed
(2) NEC 2017 requires max input voltage be not more than 80V
(3) For other connector types please contact SolarEdge

PV System Design Using a SolarEdge Inverter(4)(5)	Single Phase HD-Wave	Single phase	Three Phase 208V	Three Phase 480V	
Minimum String Length (Power Optimizers)	P320, P340, P370, P400	8	10	18	
	P405 / P505	6	8	14	
Maximum String Length (Power Optimizers)		25	25	50(6)	
Maximum Power per String	5700 (6000 with SE7600-US - SE11400- US)	5250	6000(7)	12750(8)	W
Parallel Strings of Different Lengths or Orientations		Yes			

(4) For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf
(5) It is not allowed to mix P405/P505 with P320/P340/P370/P400 in one string
(6) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement
(7) For SE14.4KUS/SE43.2KUS: It is allowed to install up to 6,500W per string when 3 strings are connected to the inverter (3 strings per unit for SE43.2KUS) and when the maximum power difference between the strings is up to 1,000W For SE30KUS/SE33.3KUS/SE66.6KUS/SE100KUS:
(8) It is allowed to install up to 15,000W per string when 3 strings are connected to the inverter (3 strings per unit for SE66.6KUS/SE100KUS) and when the maximum power difference between the strings is up to 2,000W

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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

	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
OUTPUT								
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400	VA
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400	VA
AC Output Voltage Min.-Nom.-Max. (183 - 208 - 229)	-	3	-	3	-	-	-	Vac
AC Output Voltage Min.-Nom.-Max. (211 - 240 - 264)	3	3	3	3	3	3	3	Vac
AC Frequency (Nominal)				59.3 - 60 - 60.5(1)				Hz
Maximum Continuous Output Current 208V	-	16	-	24	-	-	-	A
Maximum Continuous Output Cur- rent @240V	12.5	16	21	25	32	42	47.5	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	-	-	-	
Transformer-less, Ungrounded				Yes				
Maximum Input Voltage				480				Vdc
Nominal DC Input Voltage			380		400			Vdc
Maximum Input Current 208V(2)	-	9	-	13.5	-	-	-	
Maximum Input Current @240V(2)	8.5	10.5	13.5	16.5	20	27	30.5	Adc
Max. Input Short Circuit Current				45				Adc
Reverse-Polarity Protection				Yes				
Ground-Fault Isolation Detection				600k □ Sensitivity				
Maximum Inverter Efficiency	99			99.2				%
CEC Weighted Efficiency				99				%
Nighttime Power Consumption				< 2.5				W
ADDITIONAL FEATURES								
Supported Communication Interfaces				RS485, Ethernet, ZigBee (optional), Cellular (optional)				
Revenue Grade Data, ANSI C12.20				Optional(3)				
Rapid Shutdown - NEC 2014 and 2017 690.12				Automatic Rapid Shutdown upon AC Grid Disconnect				
STANDARD COMPLIANCE								
Safety				UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07				
Grid Connection Standards				IEEE1547, Rule 21, Rule 14 (HI)				
Emissions				FCC Part 15 Class B				
INSTALLATION SPECIFICATIONS								
AC Output Conduit Size / AWG Range		3/4" minimum / 14-6 AWG		3/4" minimum /14-4 AWG				
DC Input Conduit Size / # of Strings / AWG Range		3/4" minimum / 1-2 strings / 14-6 AWG		3/4" minimum / 1-3 strings / 14-6 AWG				
Dimensions with Safety Switch (HxWxD)		17.7 x 14.6 x 6.8 / 450 x 370 x 174		21.3 x 14.6 x 7.3 / 540 x 370 x 185				in / mm
Weight with Safety Switch		22 / 10	25.1 / 11.4	26.2 / 11.9		38.8 / 17.6		lb / kg
Noise		< 25		<50				dBA
Cooling		Natural Convection		Natural convection				
Operating Temperature Range		-13 to +140 / -25 to +60(4) (-40°F / -40°C option)(5)						°F / °C
Protection Rating				NEMA 4X (Inverter with Safety Switch)				

(1) For other regional settings please contact SolarEdge support
(2) A higher current source may be used; the inverter will limit its input current to the values stated
(3) Revenue grade inverter P/N: SExxxxH-US000NMC2
(4) For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf>
(5) -40 version P/N: SExxxxH-US000NNU4

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NOTE: PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SYSTEM SHUTDOWN - NEC 2014 Code Article 690.56 (C)



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SCOPE

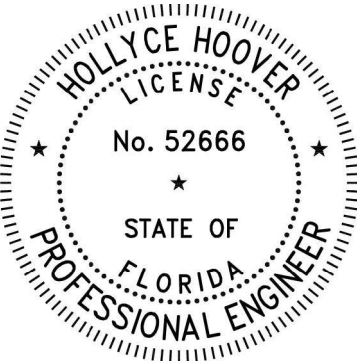
GRID-TIED (TIER 1)
6.6 kW SOLAR PHOTOVOLTAIC

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1185 SUNSET ROAD
CORAL GABLES 33143

PN: P2008-126-MIA-MHD-PVO

ENGINEER OF RECORD



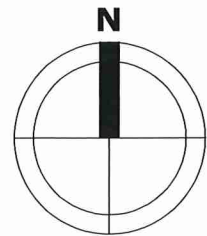
PLAN FORMAT: ANSI B / TABLOID

DESIGN: DJB
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DATE: 23 NOV 2020
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OPTIMIZER & INVERTER E-004

(SHEET 8 OF 8)

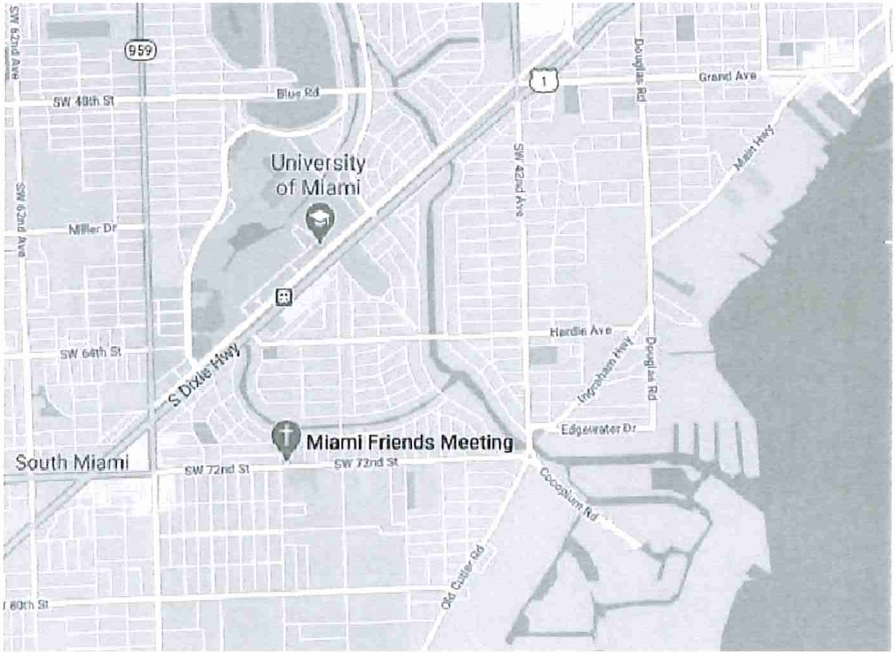


6.6 kW SOLAR PHOTOVOLTAIC SYSTEM (TIER 1)
MIAMI FRIENDS, INC. 1185 SUNSET ROAD, CORAL GABLES, FL 33143

SHEET INDEX	
SHEET	TITLE
G-001	COVER & SITE DATA
S-001	ARRAY PLAN
S-002	RAIL DETAILS
S-003	ATTACHMENT DETAILS
E-001	RISER & SCHEDULES
E-002	WARNING LABELS
E-003	MODULE SPECIFICATION
E-004	OPTIMIZER SPECIFICATION
E-005	INVERTER SPECIFICATION

SHEET NOTE: E-003 & E-004 RENAMED, E-005 ADDED:
INVERTER MANUF. ADDED METER & CHANGED MODULE FROM Q.Cell TO REC TP3

LOCATION MAP



LEGEND

REMOVED

PROPERTY INFORMATION	
OWNER	MIAMI FRIENDS INC
FOLIO	03-4130-008-0210
LAND AREA	0.46 ACRES
PROPERTY USE	0100 SINGLE FAMILY - GENERAL
LEGAL DESC	CORAL GABLES RIVIERA SEC 13 LOTS 10-11-12-13 BLK 221

CODE TABLE	
STRUCTURAL	2015 IBC/IEBC/IRC, FBCR2017
ELECTRICAL	2014 NEC, 2017 IEC, FBCR2017
FIRE SAFETY	NFPA70/70A, FBCR2017, 2015IEC
INVERTER / OPTIMIZER	UL1741SA, UL1703
ENERGY / STORAGE	UL1703, UL1642, UL1741, UL1973, UL9540, IEEE1547, UN38.3
RACKING	UL2703

WIND LOAD CALCULATIONS					ROOF SLOPE				
ANALYSIS METHOD: ASCE 7-10					3.5:12				
DESIGN SPEED (Vmph)					CAT / TYPE				
175					C/II-ENCL				
VEL PRESSURE (Q): 0.00256K _z K _{zt} K _d V ² (PSF)					5				
a': 10% LEAST HORIZ DIMENSION (LHD FT)					5				
ZONE					COEFFICIENT				
PSF+					PSF-				
%					NET				
K _z					K _{zt}				
0.85					1				
1					-1				
34					33				
11					-34				
33					67				
-11					-68				
-46					3				
1					-3.5				
K _d					PROJECT (+)				
0.85					34				
75					UPLIFT (+)				
-75					-46				
MODULE DESIGN LOAD: 0.67*TEST (PSF+/-)									



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SCOPE

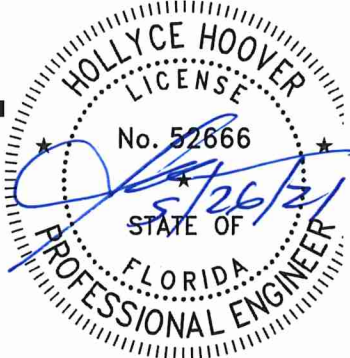
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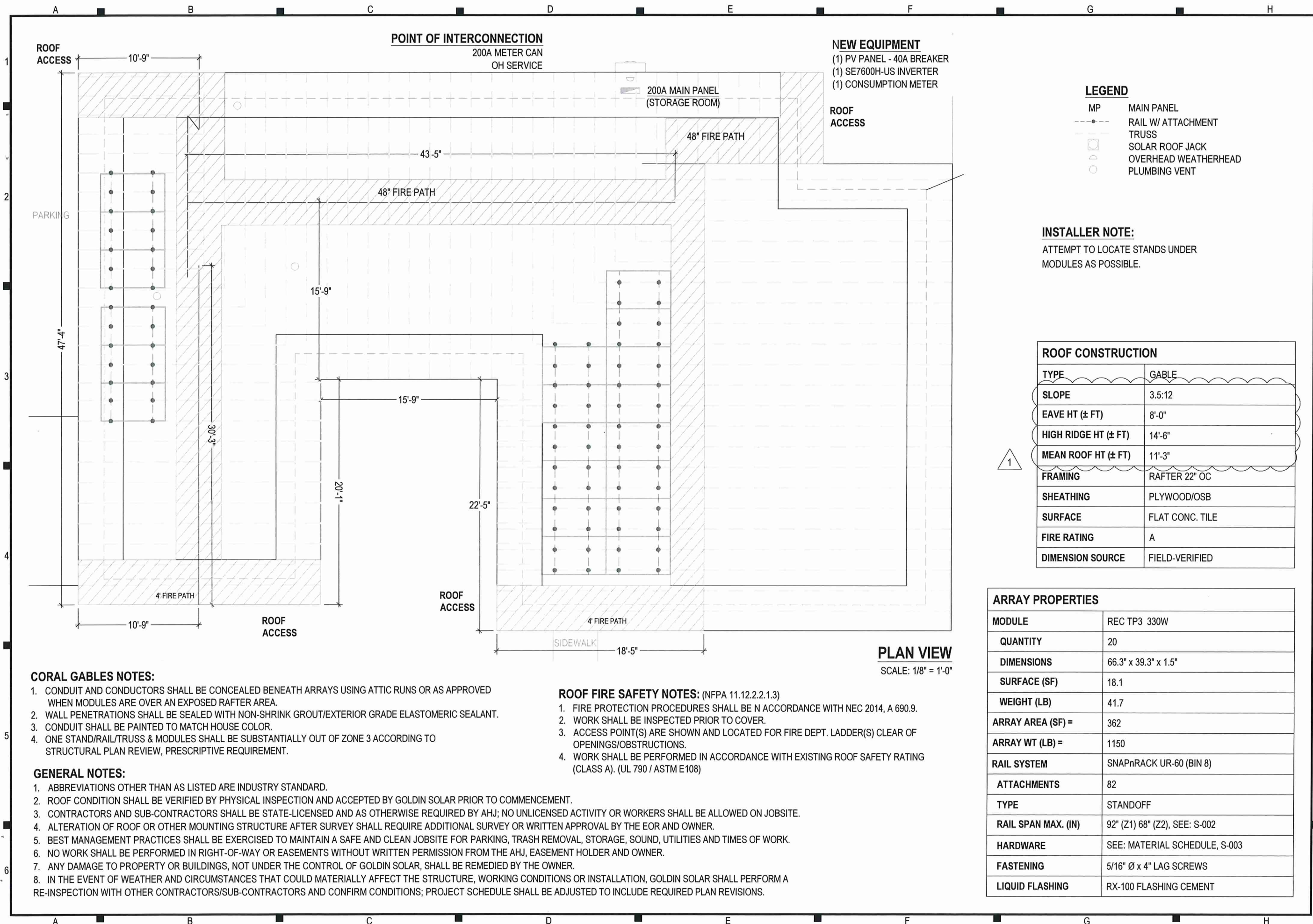


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DESIGN: DJB
CHECK: HLH

DATE: 11/23/20
REVISED: 1/22/21, 5/25/21

ARRAY PLAN S-001



CORAL GABLES NOTES:

1. CONDUIT AND CONDUCTORS SHALL BE CONCEALED BENEATH ARRAYS USING ATTIC RUNS OR AS APPROVED WHEN MODULES ARE OVER AN EXPOSED RAFTER AREA.
2. WALL PENETRATIONS SHALL BE SEALED WITH NON-SHRINK GROUT/EXTERIOR GRADE ELASTOMERIC SEALANT.
3. CONDUIT SHALL BE PAINTED TO MATCH HOUSE COLOR.
4. ONE STAND/RAIL/TRUSS & MODULES SHALL BE SUBSTANTIALLY OUT OF ZONE 3 ACCORDING TO STRUCTURAL PLAN REVIEW, PRESCRIPTIVE REQUIREMENT.

GENERAL NOTES:

1. ABBREVIATIONS OTHER THAN AS LISTED ARE INDUSTRY STANDARD.
2. ROOF CONDITION SHALL BE VERIFIED BY PHYSICAL INSPECTION AND ACCEPTED BY GOLDIN SOLAR PRIOR TO COMMENCEMENT.
3. CONTRACTORS AND SUB-CONTRACTORS SHALL BE STATE-LICENSED AND AS OTHERWISE REQUIRED BY AHJ; NO UNLICENSED ACTIVITY OR WORKERS SHALL BE ALLOWED ON JOBSITE.
4. ALTERATION OF ROOF OR OTHER MOUNTING STRUCTURE AFTER SURVEY SHALL REQUIRE ADDITIONAL SURVEY OR WRITTEN APPROVAL BY THE EOR AND OWNER.
5. BEST MANAGEMENT PRACTICES SHALL BE EXERCISED TO MAINTAIN A SAFE AND CLEAN JOBSITE FOR PARKING, TRASH REMOVAL, STORAGE, SOUND, UTILITIES AND TIMES OF WORK.
6. NO WORK SHALL BE PERFORMED IN RIGHT-OF-WAY OR EASEMENTS WITHOUT WRITTEN PERMISSION FROM THE AHJ, EASEMENT HOLDER AND OWNER.
7. ANY DAMAGE TO PROPERTY OR BUILDINGS, NOT UNDER THE CONTROL OF GOLDIN SOLAR, SHALL BE REMEDIED BY THE OWNER.
8. IN THE EVENT OF WEATHER AND CIRCUMSTANCES THAT COULD MATERIALLY AFFECT THE STRUCTURE, WORKING CONDITIONS OR INSTALLATION, GOLDIN SOLAR SHALL PERFORM A RE-INSPECTION WITH OTHER CONTRACTORS/SUB-CONTRACTORS AND CONFIRM CONDITIONS; PROJECT SCHEDULE SHALL BE ADJUSTED TO INCLUDE REQUIRED PLAN REVISIONS.

ROOF FIRE SAFETY NOTES: (NFPA 11.12.2.2.1.3)

1. FIRE PROTECTION PROCEDURES SHALL BE IN ACCORDANCE WITH NEC 2014, A 690.9.
2. WORK SHALL BE INSPECTED PRIOR TO COVER.
3. ACCESS POINT(S) ARE SHOWN AND LOCATED FOR FIRE DEPT. LADDER(S) CLEAR OF OPENINGS/OBSTRUCTIONS.
4. WORK SHALL BE PERFORMED IN ACCORDANCE WITH EXISTING ROOF SAFETY RATING (CLASS A). (UL 790 / ASTM E108)

ROOF CONSTRUCTION

TYPE	GABLE
SLOPE	3.5:12
EAVE HT (± FT)	8'-0"
HIGH RIDGE HT (± FT)	14'-6"
MEAN ROOF HT (± FT)	11'-3"
FRAMING	RAFTER 22" OC
SHEATHING	PLYWOOD/OSB
SURFACE	FLAT CONC. TILE
FIRE RATING	A
DIMENSION SOURCE	FIELD-VERIFIED

ARRAY PROPERTIES

MODULE	REC TP3 330W
QUANTITY	20
DIMENSIONS	66.3" x 39.3" x 1.5"
SURFACE (SF)	18.1
WEIGHT (LB)	41.7
ARRAY AREA (SF) =	362
ARRAY WT (LB) =	1150
RAIL SYSTEM	SNAPnRACK UR-60 (BIN 8)
ATTACHMENTS	82
TYPE	STANDOFF
RAIL SPAN MAX. (IN)	92" (Z1) 68" (Z2), SEE: S-002
HARDWARE	SEE: MATERIAL SCHEDULE, S-003
FASTENING	5/16" Ø x 4" LAG SCREWS
LIQUID FLASHING	RX-100 FLASHING CEMENT

DISCLAIMER: FOR REFERENCE ONLY UNLESS SIGNED AND SEALED

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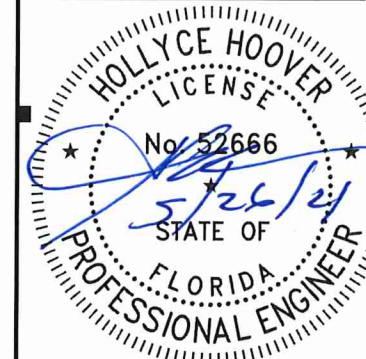
SCOPE

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PLAN FORMAT: ANSI B / TABLOID

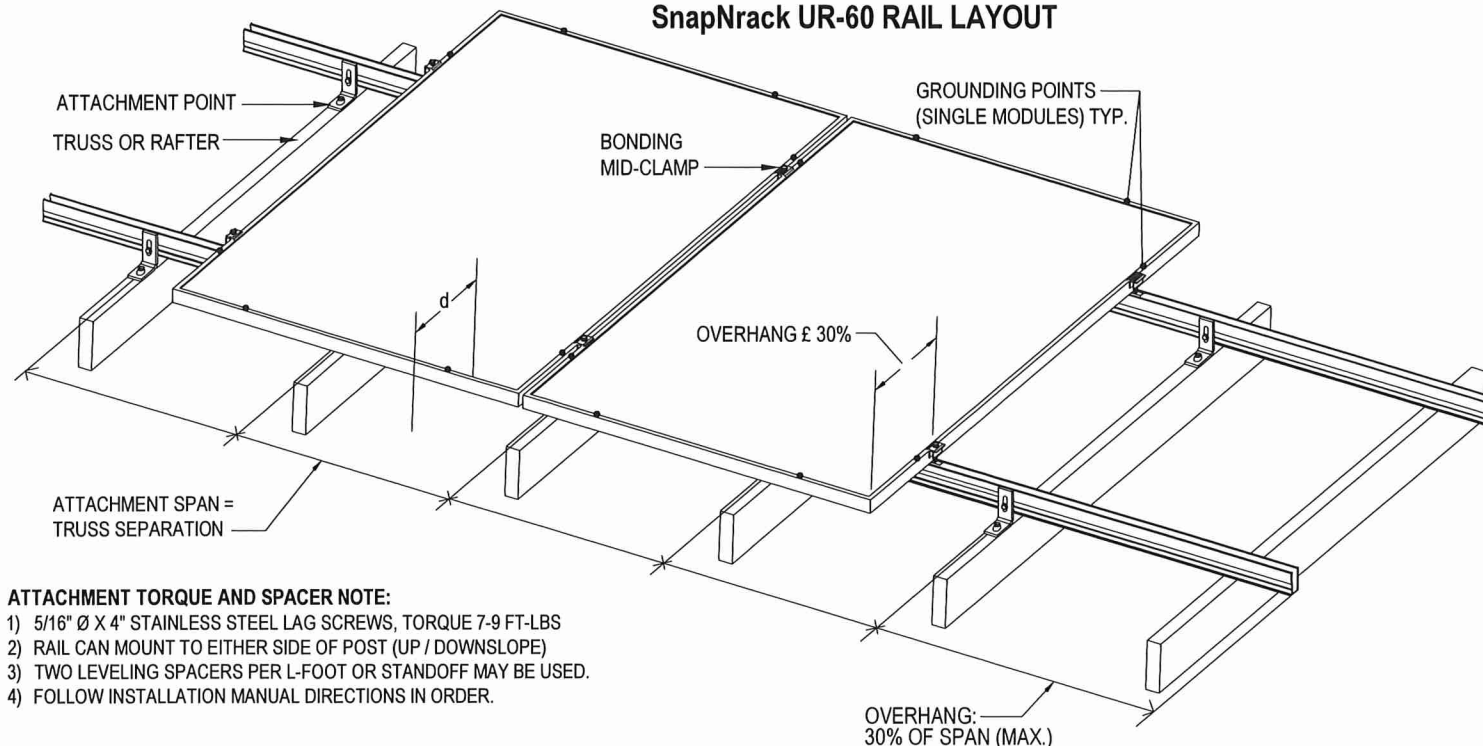
DESIGN: DJB
CHECK: HLH

DATE: 11/23/20
REVISED: 1/22/21, 3/9/21

RAIL DETAILS

S-002

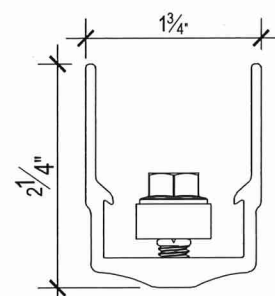
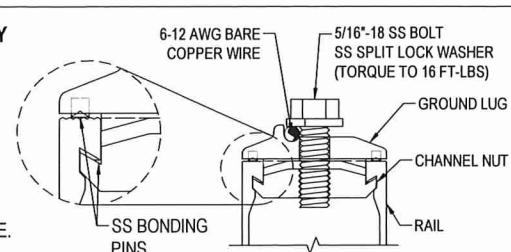
SnapNrack UR-60 RAIL LAYOUT



ATTACHMENT TORQUE AND SPACER NOTE:

- 1) 5/16" Ø X 4" STAINLESS STEEL LAG SCREWS, TORQUE 7-9 FT-LBS
- 2) RAIL CAN MOUNT TO EITHER SIDE OF POST (UP / DOWNSLOPE)
- 3) TWO LEVELING SPACERS PER 1-FOOT OR STANDOFF MAY BE USED.
- 4) FOLLOW INSTALLATION MANUAL DIRECTIONS IN ORDER.

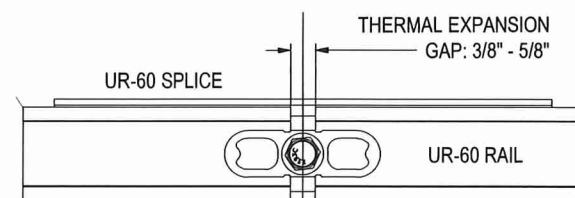
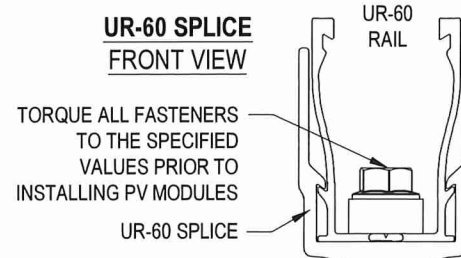
GROUNDING LUG ASSEMBLY



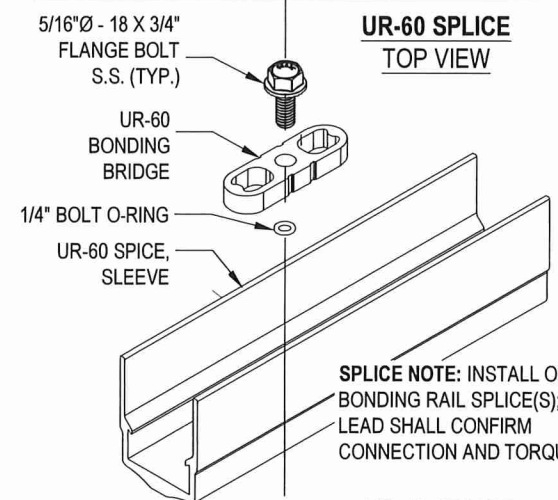
UR-60 SPLICE

SPLICE NOTES

1. FASTENERS SHALL BE TORQUED ACCORDING TO INSTALLATION MANUAL.
2. SPLICES ARE ALLOWED BETWEEN TWO (2) STAND ATTACHMENT POINTS.
3. SPLICES ARE NOT ALLOWED ALONG RAIL OVERHANGS / CANTILEVERS.



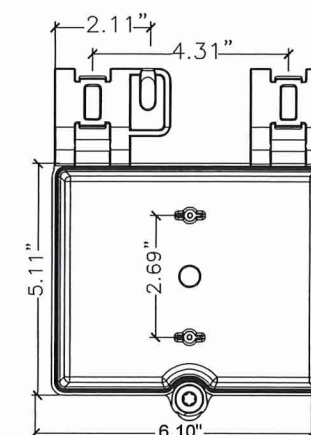
UR-60 SPLICE
TOP VIEW



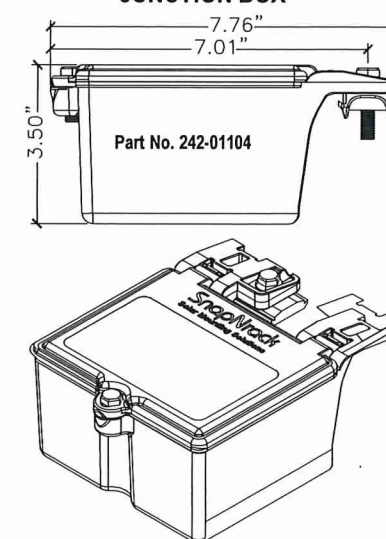
UR-60 SPLICE
EXPLODED

LAG SCREW CAPACITY		ARRAY AREA (SF)	362	LATERAL FORCE (PSF +)	57	UPLIFT FORCE (PSF -)	46
HD STANDS	84	LAG SCREWS	168	DIAMETER (D) (IN)	$\frac{5}{16}$	LENGTH L (IN)	2.5
PULLOUT TRIBUTARY AREA (SF) =	2.2	SHEAR TRIBUTARY AREA (SF) =	0.5	DISTRIBUTED LOAD (PSF) < 5 LB =	3.5	POINT LOAD (LB) < 45 LB =	7.5
WITHDRAWAL CAPACITY = $1800 \times G^{\frac{3}{2}} \times D^{\frac{3}{4}} \times L$ (LB) =			767	G	0.55	SHORT DURATION FACTOR	1.6
CAPACITY / SCREW (LB) =	1227	UPLIFT / SCREW (LB) =	96	NET TENSION / SCREW (LB) =	1132	SAFETY FACTOR =	12.8
LATERAL RESISTANCE / SCREW (LB)	220	Z 1-3/4" 140LB	0.98	NET RESISTANCE / SCREW (LB) =	29	SAFETY FACTOR =	7.7

RAIL SPAN TABLE: SnapRack UR-60 - Bin 8 - 60-Cell (0 to 30 ft agf)																						
EXPC AT	PANEL ANGLE	120 mph			130 mph			140 mph			150 mph			160 mph			170 mph			180 mph		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
B	0 to 7	110	107	91	110	101	86	110	95	79	110	91	74	107	87	69	103	81	65	98	77	6
	7 to 27	112	109	93	112	102	88	112	97	82	112	92	76	111	88	71	106	84	67	102	79	6
	27 to 45	114	114	114	113	113	113	106	106	106	100	100	100	95	95	95	90	90	90	85	85	8
	45 to 90	117	115	115	111	108	108	104	103	103	98	98	98	92	92	92	87	87	87	82	82	8
C	0 to 7	110	94	78	110	89	72	105	84	66	99	78	62	95	73	55	91	68	49	87	64	4
	7 to 27	112	96	81	112	91	74	108	86	69	103	80	64	98	75	60	94	70	53	90	66	4
	27 to 45	105	105	105	98	98	98	92	92	92	86	86	86	81	81	81	77	77	77	73	73	7
	45 to 90	103	102	102	95	95	95	89	89	89	83	83	83	78	78	78	74	74	74	70	70	7



JUNCTION BOX



MATERIALS INCLUDED

- ① (1) JUNCTION BOX BODY
- ② (1) LID W/GASKET
- ③ (1) 5/16"-18 X 1-1/4" SS HCS BOLT
- ④ (1) SCHANNEL NUT
- ⑤ (1) 5/16"-18 X 1" SS HCS BOLT
- ⑥ (1) 5/16"-18 SELF-RETAIN WASHER

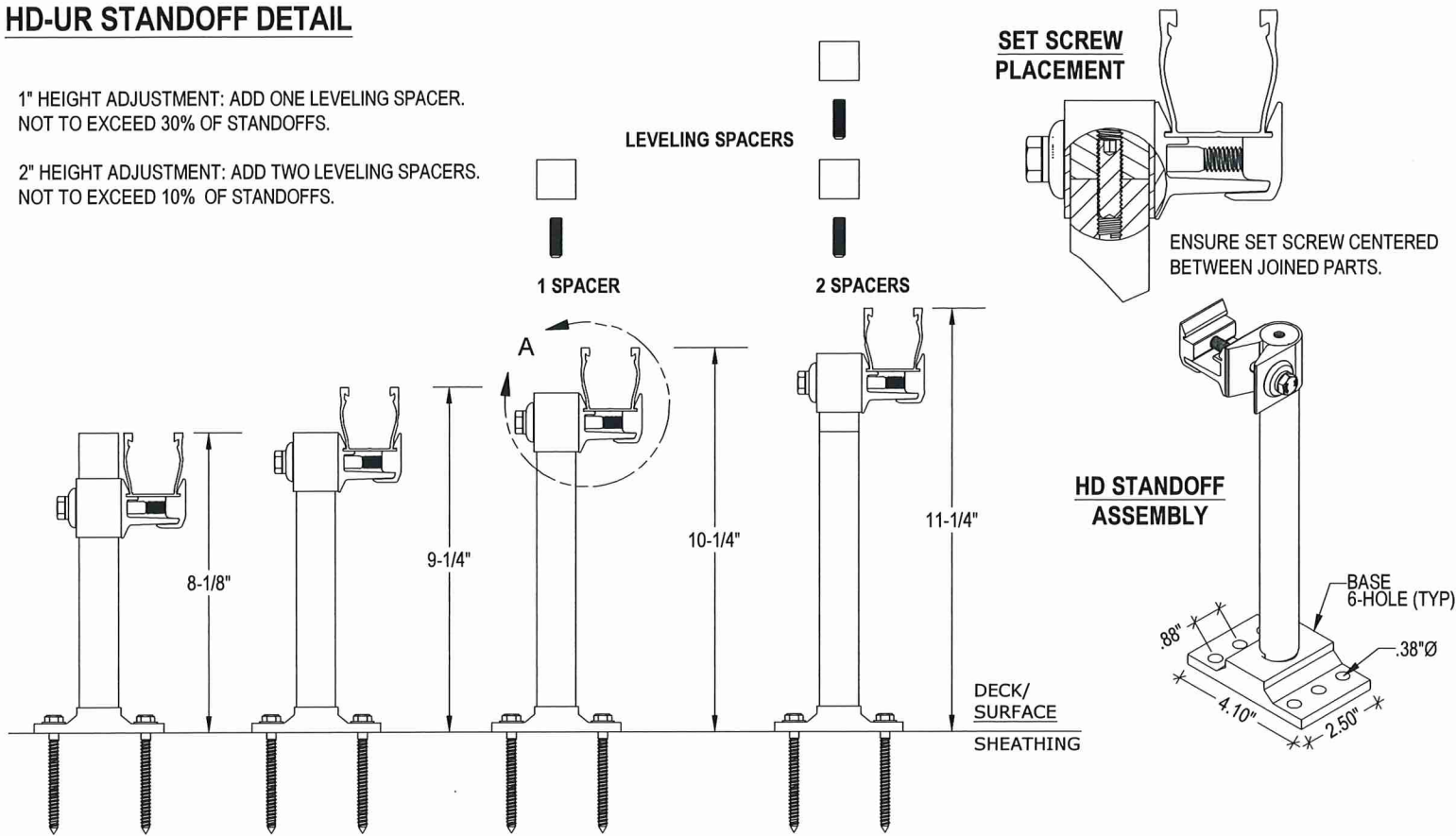
SPECIFICATIONS

GASKET: PROVIDED
INNER BOX: 5.5"x4.5"x3.2"
RATING: NEMA 4X/UL50
TEMP. RANGE: -40°F-185°F

HD-UR STANDOFF DETAIL

1" HEIGHT ADJUSTMENT: ADD ONE LEVELING SPACER.
NOT TO EXCEED 30% OF STANDOFFS.

2" HEIGHT ADJUSTMENT: ADD TWO LEVELING SPACERS.
NOT TO EXCEED 10% OF STANDOFFS.



ROOF XTENDER® RX-100 FLASHING CEMENT
(SEE TDS FOR APPLICATION TEMP RANGE)

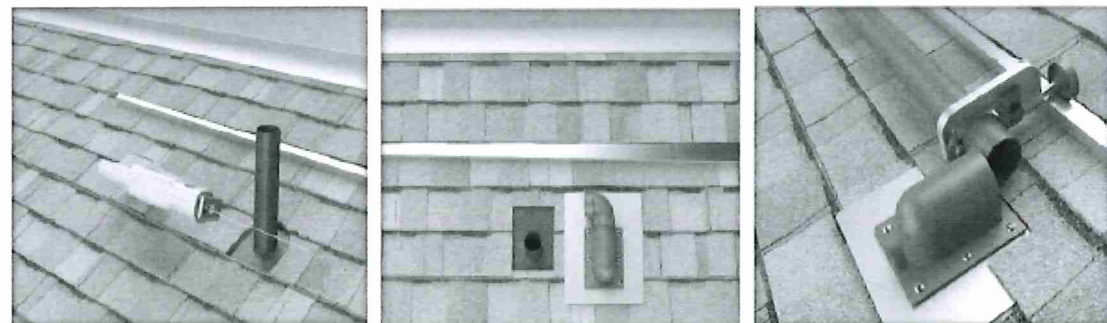
INSTALLATION INSTRUCTIONS

1. LOCATE TOP CHORD OF TRUSS/RAFTER; SNAP HORIZ/VERT LINES TO MARK ATTACHMENT POINTS.
2. PREP SURFACES; REMOVE DIRT, OIL, GREASE, FOREIGN MATERIALS PRIOR TO APPLICATION.
3. APPLY 1/4" BEAD AROUND BTM OF HD BASE PLATE, IN 3" Ø SEMI-CIRCLE ON BTM OF FLASHING AND OATEY PLATES, TO HOLES & TO LAG SCREW TOPS WORK CAREFULLY & QUICKLY; FAST SET-UP.

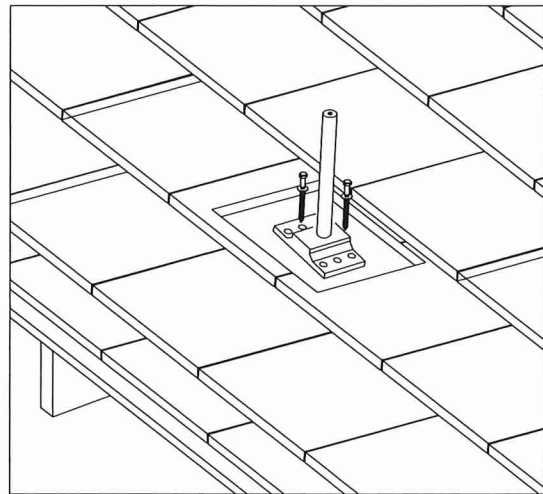
COMPLIANCE: ASTM D3409, ASTM D6511, ASTM D4586. MIAMI-DADE COUNTY PRODUCT
CONTROL NOA NO.: 18-0411.03, EXPIRATION DATE: 02/01/21, APPROVAL DATE: 01/03/19, PAGE 9 OF 13

OPTIONAL: SOLAR ROOF JACK NOTES (IGC 339-2016 IAPMO STANDARD-COMPLIANT)

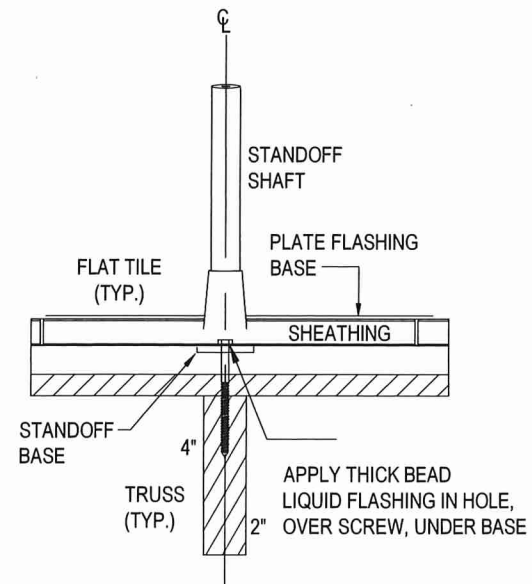
1. CUT DOWN VENT PIPE SO EXTENDS BEYOND GASKET APPROX. 1.5", TO ENSURE AIR FLOW.
2. CAP SHALL REMAIN REMOVABLE; NO SOLVENT WELDING.
3. PIPE SUPPORTS AND CLAMPS SHALL BE SECURELY ATTACHED TO RAILS WITH GALVANIZED RING CLAMPS OR TO TRUSS BY GALVANIZED OR SS BRACKETS WITH 5/16" X 4" LAG SCREWS. INSURE SUPPORTS ALLOW ROOF SHEET FLOW.
4. PIPE TERMINAL ELEVATION (HT ABOVE SURFACE) SHALL BE AT OR ABOVE EXISTING TERMINUS.



STANDOFF BASE INSTALLATION



MODULE MOUNTING SECTION



INSTALLATION STEPS

1. CUT/CORE TILE TO DECK TO LOCATE FIRST STAND POSITION.
2. CLEAN DUST AND DEBRIS FROM AREA.
3. DRILL PILOT HOLES ALIGNED TO BASE THROUGH DECK INTO TRUSS.
4. RUN BEAD OF LIQUID FLASHING INTO PILOT HOLE AND AROUND OUTER EDGE OF BASE.
5. FASTEN BASE WITH 2 LAG SCREWS @ 2-1/2" MIN. EMBEDMENT INTO TRUSS. TORQUE SCREWS ACCORDING TO MANUAL.
6. COVER SCREW TOPS WITH LIQUID FLASHING.
7. REPAIR ANY TEARS OR GAPS IN UNDERLAYMENT LESS THAN 1/4" WITH LIQUID FLASHING.
(FOR LARGER RIPS OR GAPS, USE TARGET OR TAPE PURSUANT TO MANUFACTURER'S REPAIR INSTRUCTIONS.)
8. BACKFULL CAVITY WITH FOAM.
9. RUN 1/4" BEAD LIQUID FLASHING AROUND TOP AND SIDES OF BOTTOM OF SOFT-ROLLED FLASHING.
10. PLACE SOFT-ROLLED FLASHING OVER POST.
11. FINISH WITH SNAPNRACK FLANGED GASKET.

MATERIALS SCHEDULE

ITEM	MANUFACTURER	Part #:	UNITS
UR-60 RAIL, 168"	SNAPnRACK	232-02482	10
UR-60 RAIL SPLICE, SILVER	SNAPnRACK	242-01271	4
BONDING MID CLAMP, BONDING CHANNEL NUT*	SNAPnRACK	242-02054	32
GROUNDING LUG ASSEMBLY (3-PIECES)	SNAPnRACK	242-02101	4
UR-60 END CAP	SNAPnRACK	232-02484	16
UNIV END CLAMP ASSEMBLY	SNAPnRACK	242-02215	16
WIRE RETENTION CLIP, COMPOSITE, BLACK (20/PK)	SNAPnRACK	232-01106	1
OPTIMIZER KIT: CHANNEL NUT, BOLT WASHER	SNAPnRACK	242-92093	20
ULTRA RAIL HD STANDOFF KIT, 7" BASE & SPACERS	SNAPnRACK	242-01265	82
5/16" Ø X 4" STAINLESS STEEL LAG	SNAPnRACK	516401	164
FLASHING - SOFT WITH ROLLED EDGES	SNAPnRACK	175-0500	82
RX100 LIQUID FLASHING, NOA #18-0411.03 (12-PK)	TRI-BUILT		1
SOLAR ROOF JACK*	SOLAR ROOF JACK	SLAR15	1

* 32 BONDING MC IF USE OPTIONAL SOLAR ROOF JACK



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SOLAR LICENSE: CVC56965
ELECTRICAL LICENSE: EC13010538
ROOFING LICENSE: CCC1331878

AHJ: CITY OF CORAL GABLES
UTILITY: FPL

SCOPE

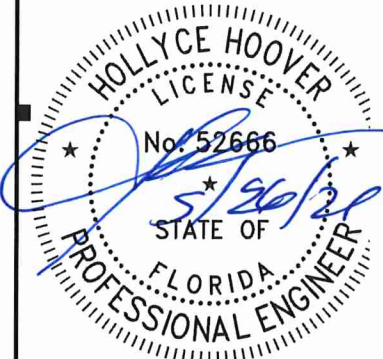
GRID-TIED (TIER 1)
6.6 kW SOLAR PHOTOVOLTAIC

MIAMI
FRIENDS, INC

1185 SUNSET ROAD
CORAL GABLES 33143

PN: P2008-126-MIA-MHD-PVO

ENGINEER OF RECORD



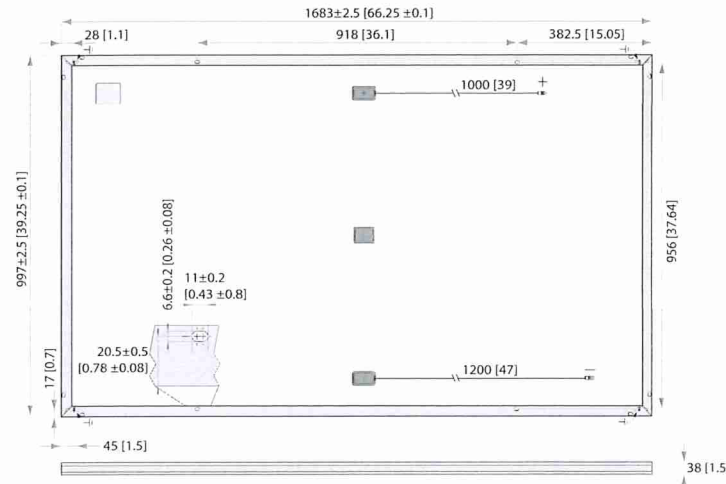
PLAN FORMAT: ANSI B / TABLOID

DESIGN: DJB
CHECK: HLH

DATE: 11/23/20
REVISED: 3/9/21, 5/25/21

ATTACHMENT
DETAILS
S-003

REC TWINPEAK 3 MONO BLACK SERIES



Measurements in mm [in]

ELECTRICAL DATA @ STC		Product code*: RECxxxTP3M Black				
Power Output - P _{MAX} (Wp)	315	320	325	330	335	
Watt Class Sorting - (W)	-0/+5	-0/+5	-0/+5	-0/+5	-0/+5	
Nominal Power Voltage - V _{MPP} (V)	33.6	33.8	34.1	34.3	34.6	
Nominal Power Current - I _{MPP} (A)	9.40	9.50	9.54	9.62	9.69	
Open Circuit Voltage - V _{OC} (V)	38.7	39.1	39.5	39.9	40.2	
Short Circuit Current - I _{SC} (A)	10.30	10.30	10.36	10.39	10.42	
Panel Efficiency (%)	18.8	19.1	19.4	19.7	20.0	

Values at standard test conditions (STC: air mass AM1.5, irradiance 1000 W/m², temperature 25°C), based on a production spread with a tolerance of P_{MAX}, V_{OC} & I_{SC} ±3% within one watt class. At a low irradiance of 200 W/m² at least 95% of the STC module efficiency will be achieved.
*Where xxx indicates the nominal power class (P₁₀₀₀) at STC indicated above.

ELECTRICAL DATA @ NMOT		Product code*: RECxxxTP3M Black				
Power Output - P _{MAX} (Wp)	235	238	242	246	250	
Nominal Power Voltage - V _{MPP} (V)	31.3	31.5	31.7	31.9	32.2	
Nominal Power Current - I _{MPP} (A)	7.51	7.57	7.63	7.70	7.75	
Open Circuit Voltage - V _{OC} (V)	36.1	36.4	36.8	37.1	37.5	
Short Circuit Current - I _{SC} (A)	8.23	8.26	8.29	8.31	8.34	

Nominal module operating temperature (NMOT: air mass AM1.5, irradiance 800 W/m², temperature 20°C, windspeed 1 m/s)
*Where xxx indicates the nominal power class (P₁₀₀₀) at STC indicated above.

CERTIFICATIONS



UL 1703, Fire classification: Type 2, IEC 61215, IEC 61730, ISO 9001:2015, ISO 14001:2004, OHSAS 18001:2007

WARRANTY

	Standard	REC ProTrust	
Installed by an REC Certified Solar Professional	No	Yes	Yes
System Size	Any	≤25 kW 25-500 kW	
Product Warranty (yrs)	20	25	25
Power Warranty (yrs)	25	25	25
Labor Warranty (yrs)	0	25	10
Power in Year 1	97.5%	97.5%	97.5%
Annual Degradation	0.7%	0.7%	0.7%
Power in Year 25	80.7%	80.7%	80.7%

See warranty documents for details. Some conditions apply.

REC Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power in order to facilitate global energy transitions. Committed to quality and innovation, REC offers photovoltaic modules with leading high quality, backed by an exceptional low warranty claims rate of less than 100ppm. Founded in Norway in 1996, REC employs 2,000 people and has an annual solar panel capacity of 1.8 GW. With over 10 GW installed worldwide, REC is empowering more than 16 million people with clean solar energy. REC Group is a BlueStar Elkem company with headquarters in Norway, operational headquarters in Singapore, and regional bases in North America, Europe, and Asia-Pacific.



www.recgroup.com

20.0% EFFICIENCY

20 YEAR PRODUCT WARRANTY

25 YEAR LINEAR POWER OUTPUT WARRANTY

TEMPERATURE RATINGS

Nominal Module Operating Temperature:	44.6°C (+2°C)
Temperature coefficient of P _{MAX} :	-0.37 %/°C
Temperature coefficient of V _{OC} :	-0.28 %/°C
Temperature coefficient of I _{SC} :	0.04 %/°C

GENERAL DATA

Cells:	120 half-cut mono-Si p-type PERC cells 6 strings of 20 cells in series
Glass:	0.13" (3.2 mm) solar glass with anti-reflective surface treatment
Back sheet:	Highly resistant polyester polyolefin construction (black)
Frame:	Anodized aluminum (black)
Junction box:	3-part with 3 bypass diodes, IP67 rated 12 AWG (4 mm ²) PV wire, 39" + 47" (1.0 m + 1.2 m)
Connectors:	Stäubli MC4 PV-KBT4/PV-KST4, 12 AWG (4 mm ²)

MAXIMUM RATINGS

Operational temperature:	-40 ... +185°F (-40 ... +85°C)
Maximum system voltage:	1000 V
Design load (+): snow	3600 Pa (75.2 lbs/ft ²)
Maximum test load (+):	5400 Pa (112.8 lbs/ft ²)
Design load (-): wind	1600 Pa (33.4 lbs/ft ²)
Maximum test load (-):	2400 Pa (50 lbs/ft ²)
Max series fuse rating:	20 A
Max reverse current:	20 A

* Calculated using a safety factor of 1.5
* See installation manual for mounting instructions

MECHANICAL DATA

Dimensions:	66.3 x 39.25 x 1.5 (1683 x 997 x 38 mm)
Area:	17.98 ft ² (1.68 m ²)
Weight:	41.7 lbs (18.9 kg)

Note! Specifications subject to change without notice.

Specifications subject to change without notice.

Ref: PM-DS-07-16 Rev-A 05/20



REC Americas LLC
1820 Gateway Drive
Suite 170
San Mateo, CA 94404

RE: REC Modules Max Wind Load

San Luis Obispo, 19 February 2021

To Whom it May Concern;

REC Americas LLC confirms that the REC Twin Peak 3M series (RECXXTP3M) and REC Alpha Series (RECXXXAA) modules have passed UL2703 Mechanical Load testing at a test load of +/-113 PSF utilizing four-point attachments on the long side of the module.

Please be in touch with the REC Technical Department if you have any questions.

Sincerely,

George McClellan
REC Americas LLC
Senior Technical Sales Manager

REC Americas LLC
1420 Gateway Dr, Suite 170
San Mateo, CA 94404
Dir 805 704 3226
Fax 805 457 6104
www.recgroup.com



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AHJ: CITY OF CORAL GABLES
UTILITY: FPL

SCOPE

GRID-TIED (TIER 1)
6.6 kW SOLAR PHOTOVOLTAIC

MIAMI FRIENDS, INC

1185 SUNSET ROAD
CORAL GABLES 33143

PN: P2008-126-MIA-MHD-PVO

ENGINEER OF RECORD



PLAN FORMAT: ANSI B / TABLOID

DESIGN: DJB
CHECK: HLH

DATE: 11/23/20
REVISED: 5/25/21

MODULE SPECIFICATION E-003

Power Optimizer For North America

P320 / P340 / P370 / P400 / P405 / P505

Optimizer model (typical module compatibility)	P320 (for 60-cell modules)	P340 (for high- power 60-cell modules)	P370 (for higher- power 60 and 72-cell modules)	P400 (for 72 & 96- cell modules)	P405 (for thin film modules)	P505 (for higher current modules)	
INPUT							
Rated Input DC Power ¹⁾	320	340	370	400	405	505	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	48		60	80	125 ²⁾	83 ²⁾	Vdc
MPPT Operating Range	8 - 48		8 - 60	8 - 80	12.5 - 105	12.5 - 83	Vdc
Maximum Short Circuit Current (Isc)	11			10.1		14	Adc
Maximum DC Input Current	13.75			12.63		17.5	Adc
Maximum Efficiency	99.5						%
Weighted Efficiency	98.8						%
Overvoltage Category	II						
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREGE INVERTER)							
Maximum Output Current	15						Adc
Maximum Output Voltage	60				85		Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREGE INVERTER OR SOLAREGE INVERTER OFF)							
Safety Output Voltage per Power Optimizer	1 ± 0.1						Vdc
STANDARD COMPLIANCE							
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3						
Safety	IEC62109-1 (class II safety), UL1741						
RoHS	Yes						
INSTALLATION SPECIFICATIONS							
Maximum Allowed System Voltage	1000						Vdc
Compatible inverters	All SolarEdge Single Phase and Three Phase inverters						
Dimensions (W x L x H)	129 x 153 x 27.5 / 5.1 x 6 x 1.1			129 x 153 x 33.5 / 5.1 x 6 x 1.3	129 x 159 x 49.5 / 5.1 x 6.3 x 1.9	129 x 162 x 59 / 5.1 x 6.4 x 2.3	mm / in
Weight (including cables)	630 / 1.4			750 / 1.7	845 / 1.9	1064 / 2.3	gr / lb
Input Connector	MC4 ³⁾						-
Output Wire Type / Connector	Double Insulated, MC4						
Output Wire Length	0.95 / 3.0		1.2 / 3.9				m / ft
Input Wire Length	0.16 / 0.52						m / ft
Operating Temperature Range	-40 - +85 / -40 - +185						°C / °F
Protection Rating	IP68 / NEMA6P						
Relative Humidity	0 - 100						%

¹⁾ Rated STC power of the module. Module of up to -5% power tolerance allowed.

²⁾ NEC 2017 requires max input voltage be not more than 80V.

³⁾ For other connector types please contact SolarEdge.

PV System Design Using a SolarEdge Inverter ⁽¹⁾⁽²⁾	Single Phase HD-Wave	Single phase	Three Phase 208V	Three Phase 480V	
Minimum String Length (Power Optimizers)	P320, P340, P370, P400 P405 / P505	8	10	18	
Maximum String Length (Power Optimizers)		6	8	14	
Maximum String Length (Power Optimizers)		25	25	50 ⁴⁾	
Maximum Power per String	5700 (6000 with SE7600-US - SE11400- US)	5250	6000 ⁵⁾	12750 ⁶⁾	W
Parallel Strings of Different Lengths or Orientations	Yes				

⁴⁾ For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_us.pdf

⁵⁾ It is not allowed to mix P405/P505 with P320/P340/P370/P400 in one string.

⁶⁾ A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement.

⁷⁾ For SE144KUS/SE43.2KUS it is allowed to install up to 6,900W per string when 3 strings are connected to the inverter (3 strings per unit for SE43.2KUS) and when the maximum power difference between the strings is up to 1,000W.

⁸⁾ For SE30KUS/SE33.3KUS/SE66.6KUS/SE100KUS it is allowed to install up to 18,000W per string when 3 strings are connected to the inverter (3 strings per unit for SE66.6KUS/SE100KUS) and when the maximum power difference between the strings is up to 2,000W.

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CE RoHS



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SCOPE

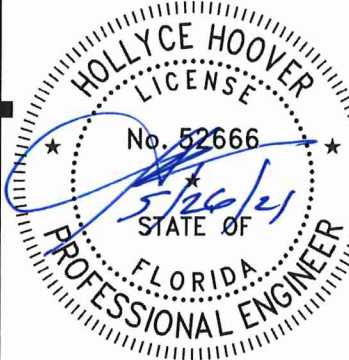
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OPTIMIZER SPECIFICATION E-004

Single Phase Inverter with HD-Wave Technology for North America

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

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXXH-XXXXBXX4							
OUTPUT								
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	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 Min.-Nom.-Max. (211 - 240 - 264)	✓	✓	✓	✓	✓	✓	✓	Vac
AC Output Voltage Min.-Nom.-Max. (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
Power Factor	1, Adjustable - 0.85 to 0.85							
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	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	600k Ω Sensitivity							
Maximum Inverter Efficiency	99	99.2						%
CEC Weighted Efficiency	99						99 @ 240V 98.5 @ 208V	%
Nighttime Power Consumption	< 2.5							W

(1) For other regional settings please contact SolarEdge support
(2) A higher current source may be used; the inverter will limit its input current to the values stated

Single Phase Inverter with HD-Wave Technology for North America

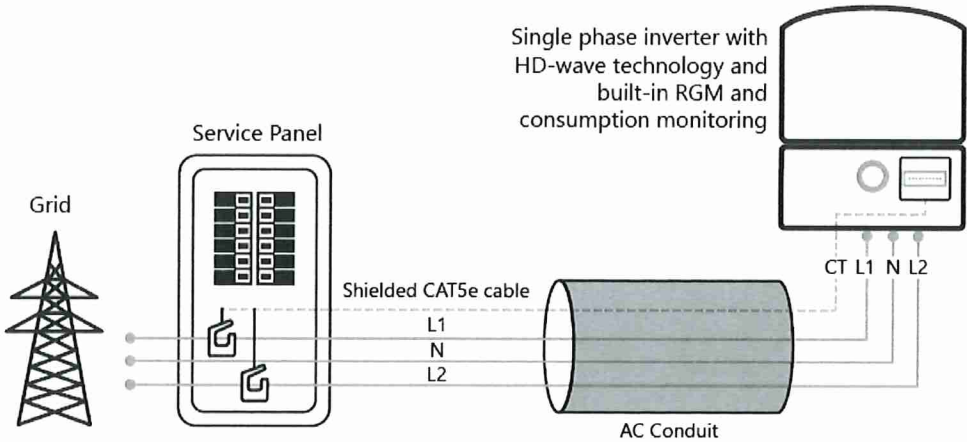
SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/
SE7600H-US / SE10000H-US / SE11400H-US

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US
ADDITIONAL FEATURES							
Supported Communication Interfaces	RS485, Ethernet, ZigBee (optional), Cellular (optional)						
Revenue Grade Metering, ANSI C12.20	Optional ⁽³⁾						
Consumption metering							
Inverter Commissioning	With the SetApp mobile application using Built-in Wi-Fi Access Point for Local Connection						
Rapid Shutdown - NEC 2014, NEC 2017 and NEC 2020, 690.12	Automatic Rapid Shutdown upon AC Grid Disconnect						
STANDARD COMPLIANCE							
Safety	UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07						
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (H1)						
Emissions	FCC Part 15 Class B						
INSTALLATION SPECIFICATIONS							
AC Output Conduit Size / AWG Range	1" Maximum / 14-6 AWG				1" Maximum /14-4 AWG		
DC Input Conduit Size / # of Strings / AWG Range	1" Maximum / 1-2 strings / 14-6 AWG				1" Maximum / 1-3 strings / 14-6 AWG		
Dimensions with Safety Switch (HxWxD)	17.7 x 14.6 x 6.8 / 450 x 370 x 174				21.3 x 14.6 x 7.3 / 540 x 370 x 185		in / mm
Weight with Safety Switch	22 / 10	25.1 / 11.4	26.2 / 11.9		38.8 / 17.6		lb / kg
Noise	< 25			<50			dBA
Cooling	Natural Convection						
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽³⁾						*F / °C
Protection Rating	NEMA 4X (Inverter with Safety Switch)						

(3) Inverter with Revenue Grade Meter P/N: SExxxxH-US000BNC4; Inverter with Revenue Grade Production and Consumption Meter P/N: SExxxxH-US000BNI4. For consumption metering, current transformers should be ordered separately: SEACT0750-200NA-20 or SEACT0750-400NA-20, 20 units per box
(4) Full power up to at least 50°C / 122°F; for power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf>

How to Enable Consumption Monitoring

By simply wiring current transformers through the inverter's existing AC conduits and connecting them to the service panel, homeowners will gain full insight into their household energy usage helping them to avoid high electricity bills



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RoHS



CONTRACTOR

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SOLAR LICENSE: CVC56965
ELECTRICAL LICENSE: EC13010538
ROOFING LICENSE: CCC1331878

AHJ: CITY OF CORAL GABLES
UTILITY: FPL

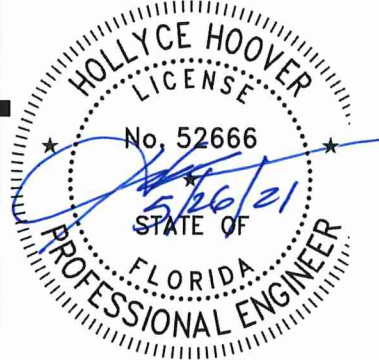
SCOPE

GRID-TIED (TIER 1)
6.6 kW SOLAR PHOTOVOLTAIC

MIAMI FRIENDS, INC

1185 SUNSET ROAD
CORAL GABLES 33143
PN: P2008-126-MIA-MHD-PVO

ENGINEER OF RECORD



PLAN FORMAT: ANSI B / TABLOID

DESIGN: DJB
CHECK: HLH

DATE: 11/23/20
REVISED: 5/25/21

INVERTER SPECIFICATION E-005