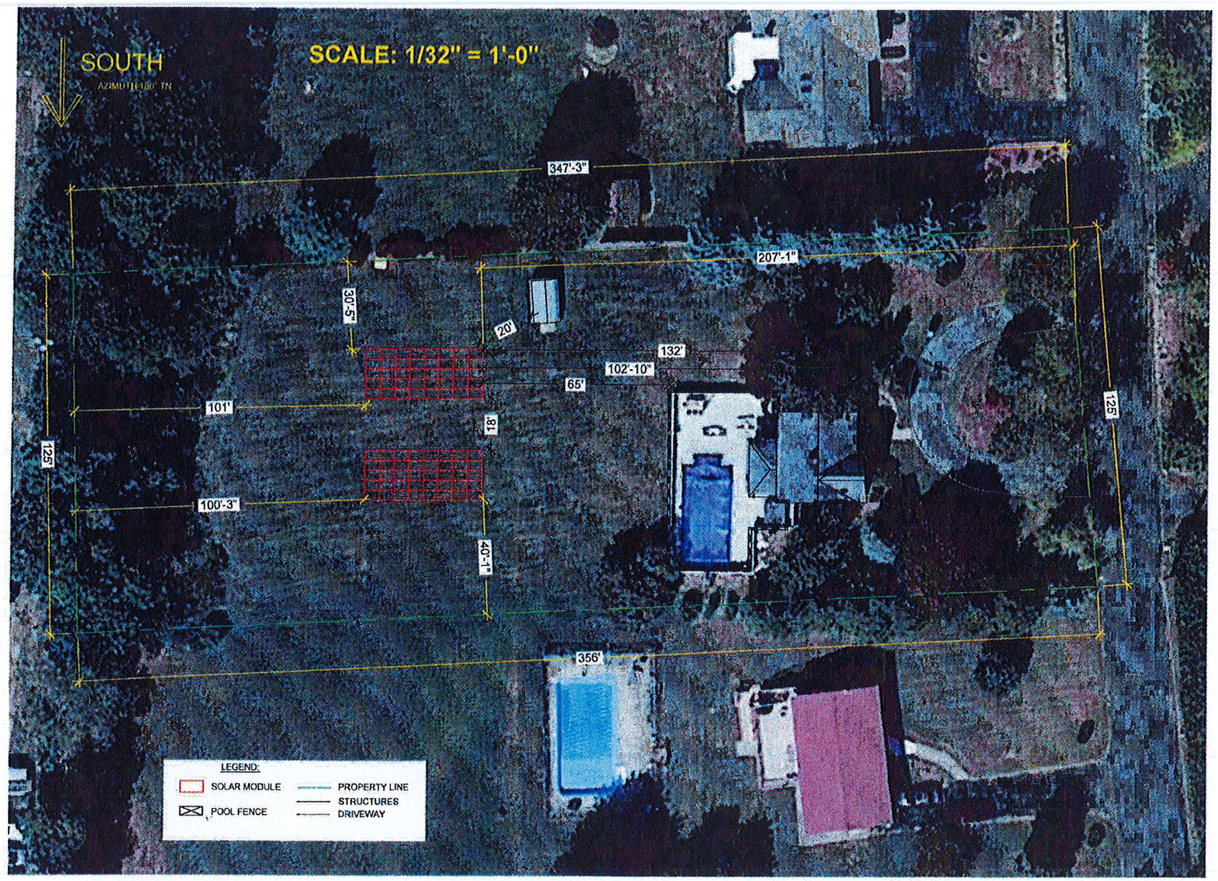


NEW YORK STATE SOLAR FARM INC.
871 STATE ROUTE 208
GARDINER, NY 12525 USA
PHONE: 1.877.SOLAR.95

NEW YORK STATE SOLAR

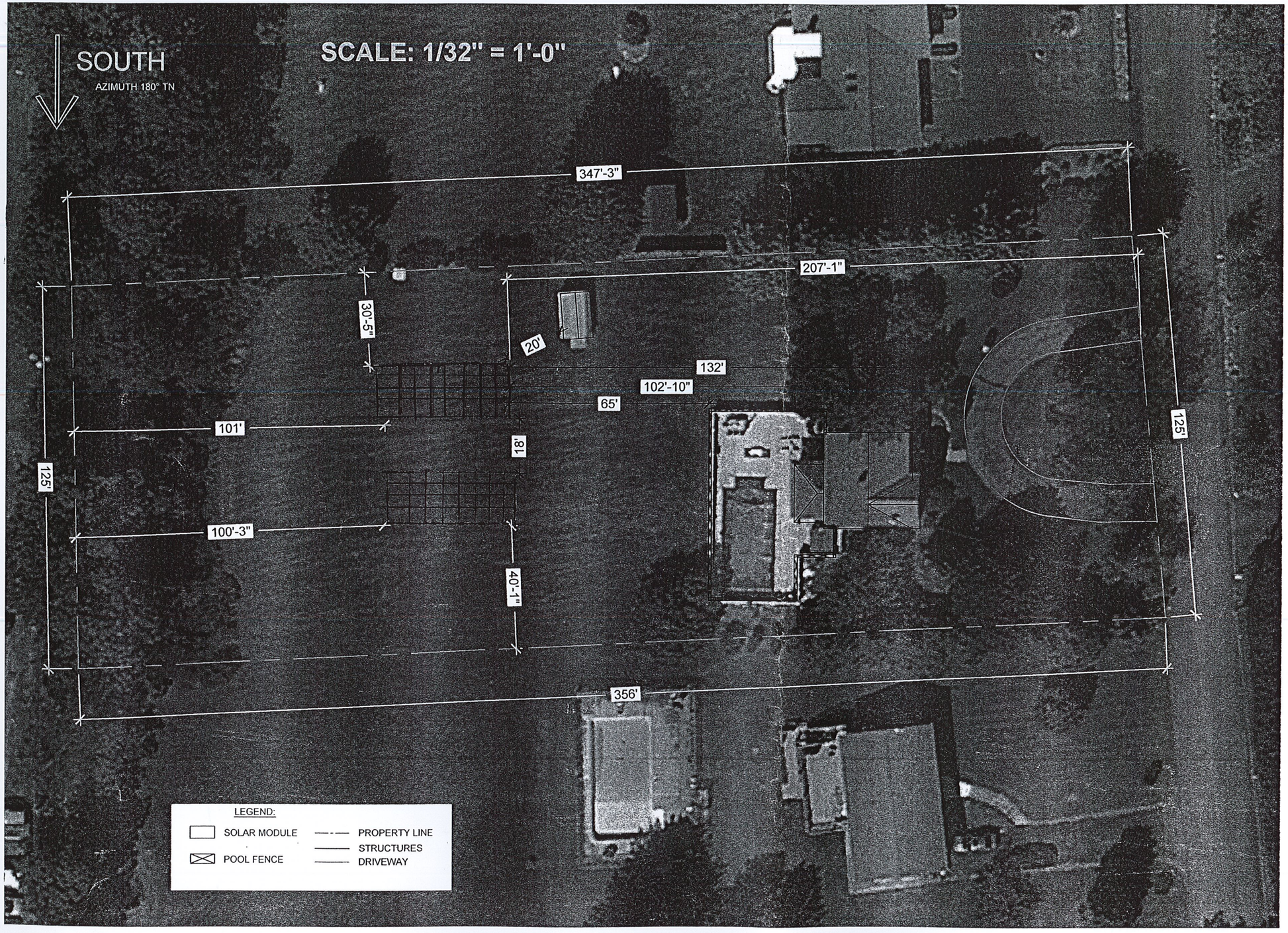
CUSTOMER:
RESIDENCE
Nicole and Christopher Cagna
19 Coldon Hill Rd
Newburgh, NY 12550

PV SYSTEM CONFIGURATION:
SYSTEM SIZE: 26.16 kW
PV MODULES:(80) SUNPOWER SPR-327NE-WHT-D
INVERTER: ABB POWERONE (5) PVI 5000 (1X8,1X8)

DRAWN BY: NYSOLAR-AS
DATE: 5-4-2015
REV: 0
INSTALLER CODE: 0

SHEET #: PV1
SHEET TITLE: PLOT PLAN
1 OF 1 SHEETS

SOLAR ARRAYS AND THEIR SYSTEM COMPONENTS SHALL BE INSTALLED IN CONJUNCTION WITH LOCAL CODES, NY BUILDING CODES, AND WITH THE NEC ACCEPTED BY AHJ.



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1 OF 1 SHEETS

SOLAR ARRAYS AND THEIR SYSTEM COMPONENTS SHALL BE INSTALLED IN CONJUNCTION WITH LOCAL CODES, NY BUILDING CODES, AND WITH THE NEC ACCEPTED BY AHJ.

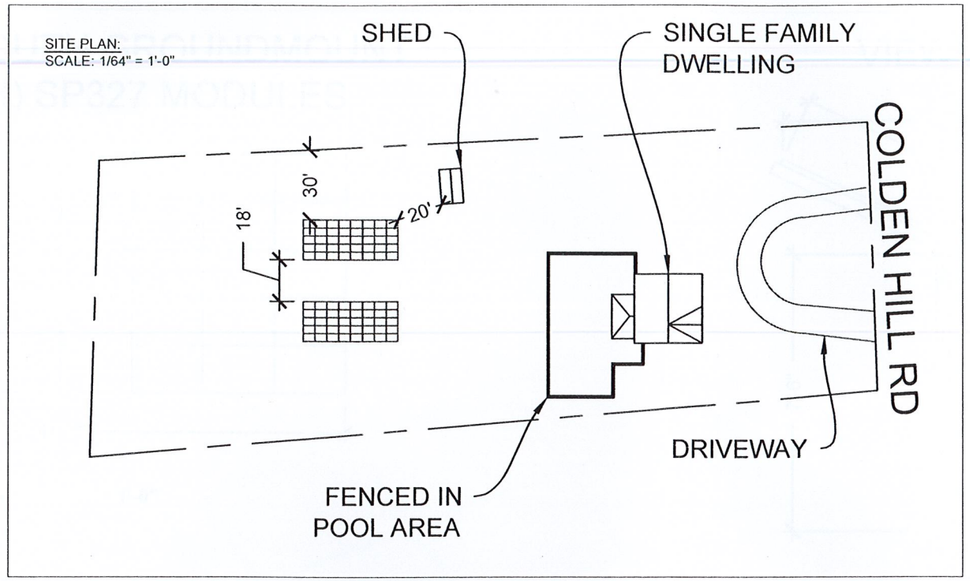
LEGEND:

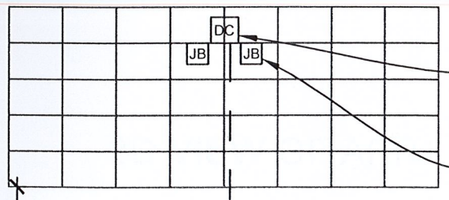
- SOLAR MODULE
- M MAIN — MAIN SERVICE
- INV — INVERTER
- PP — PV DEDICATED PANEL
- AC — AC DISCONNECT
- JB — JUNCTION BOX
- DC — DC DISCONNECT
- CONDUIT RUN
- STRUCTURES
- DRIVEWAY
- PROPERTY LINE

SOUTH

AZIMUTH 180° TN

SITE PLAN:
SCALE: 1/64" = 1'-0"





POLE-MOUNTED DC DISCONNECT

RAIL-MOUNTED JUNCTION BOX

POLE-MOUNTED DC DISCONNECT

RAIL-MOUNTED JUNCTION BOX

~250' TRENCHED CONDUIT

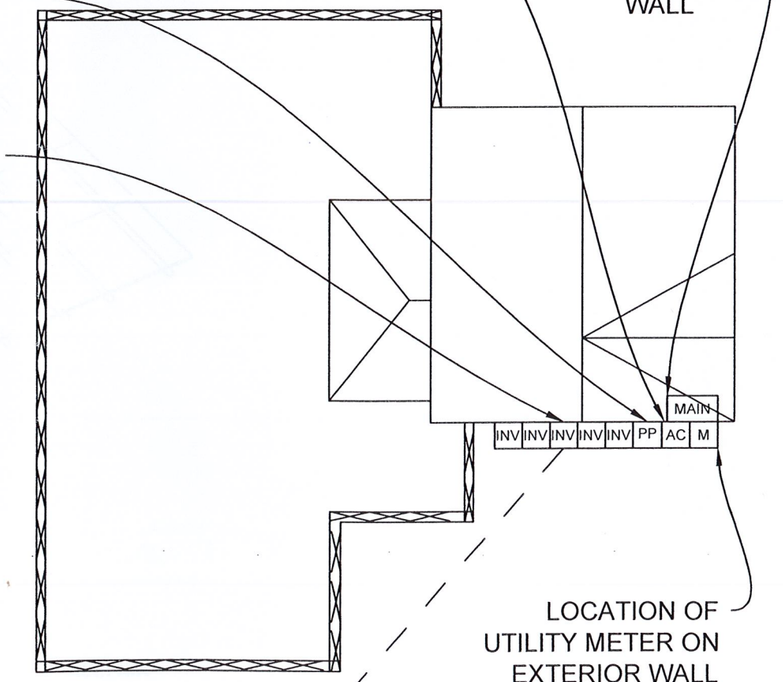
SITE PLAN DETAIL:
SCALE: 1/16" = 1'-0"

FUSED AC DISCONNECT ON EXTERIOR WALL NEXT TO UTILITY METER

PV DEDICATED PANEL ON EXTERIOR WALL

LOCATION OF INVERTERS WITH INTEGRATED DC DISCONNECTS ON EXTERIOR WALL

LOCATION OF MAIN SERVICE PANEL ON INTERIOR WALL



LOCATION OF UTILITY METER ON EXTERIOR WALL

NEW YORK STATE SOLAR FARM INC.

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GARDINER, NY 12525 USA

PHONE: 1.877.SOLAR.95

NEW YORK STATE SOLAR

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19 Colden Hill Rd
Newburgh, NY 12550

PV SYSTEM CONFIGURATION:
SYSTEM SIZE: 26.16 kW
PV MODULES:(80) SUNPOWER SPR-327NE-WHT-D
INVERTER: ABB POWERONE (5) PVI 5000 (1X8,1X8)

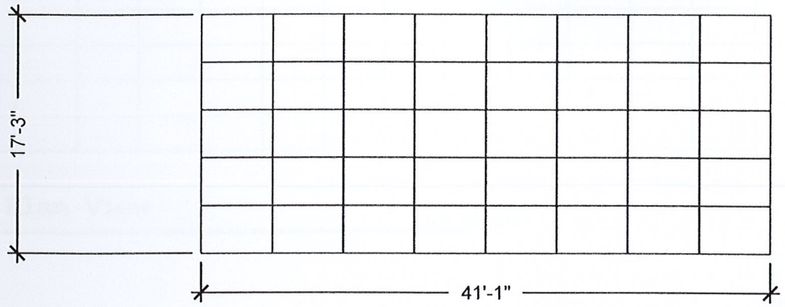
DRAWN BY: NYSOLAR-AS
DATE: 5-4-2015
REV: 0
INSTALLER CODE: 0

SHEET #: PV1
SHEET TITLE: SITE PLAN
1 OF 10 SHEETS

SCALE: LISTED

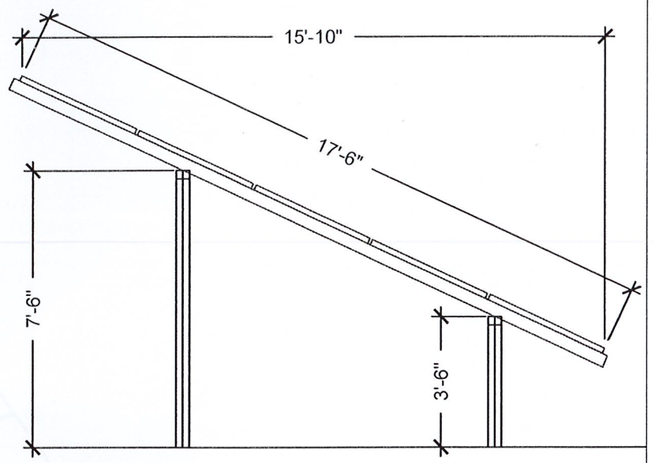
SOLAR ARRAYS AND THEIR SYSTEM COMPONENTS SHALL BE INSTALLED IN CONJUNCTION WITH LOCAL CODES, NY BUILDING CODES, AND WITH THE NEC ACCEPTED BY AHJ.

NORTH & SOUTH GROUNDMOUNT
(40 EACH) SP327 MODULES



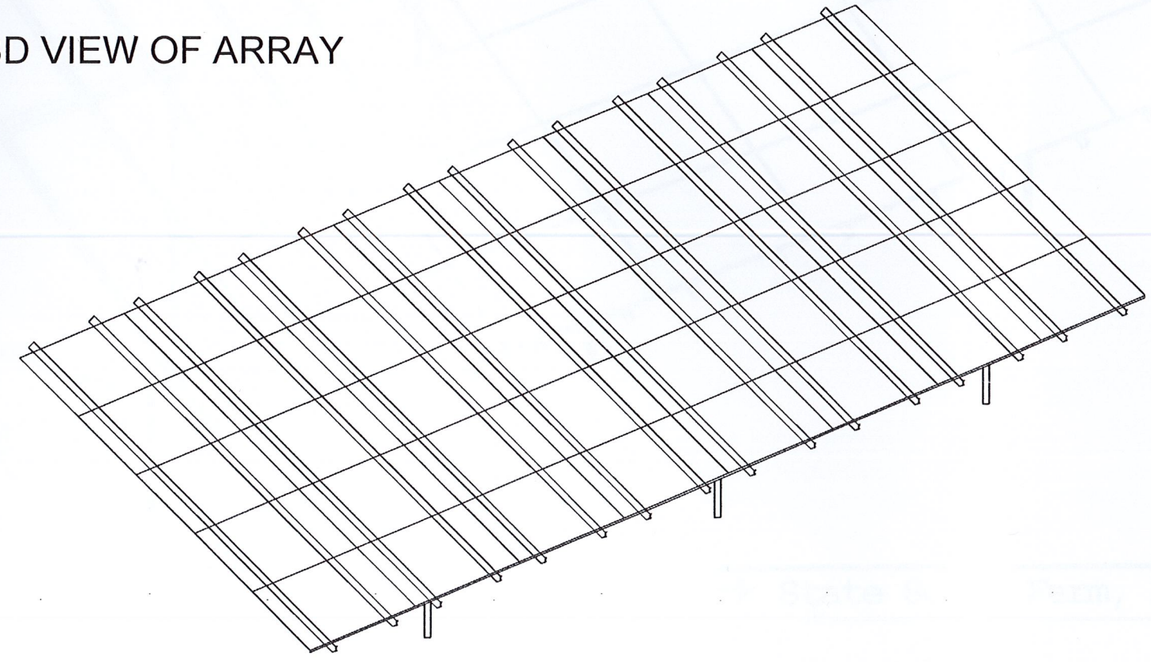
SCALE: 3/32" = 1'-0"

VIEW FROM WEST SIDE



SCALE: 1/4" = 1'-0"

3D VIEW OF ARRAY



SCALE: N/A

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INVERTER: ABB POWERONE (5) PVI 5000 (1X8,1X8)

SOUTH

AZ 180° TN

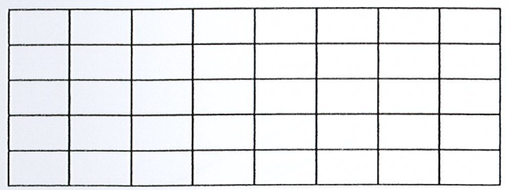
LEGEND:
- SOLAR PV MODULE
- ROOF OUTLINE
- RAILING

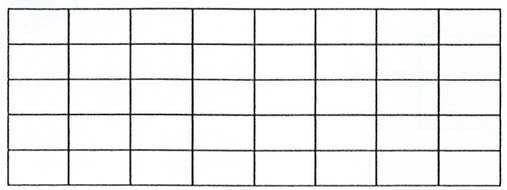
DRAWN BY: NYSOLAR-AS
DATE: 5-4-2015
REV: 0
INSTALLER CODE: 0

SHEET #: PV2
SHEET TITLE: DESIGN PROPOSAL
2 OF 1 0 SHEETS

SCALE: LISTED

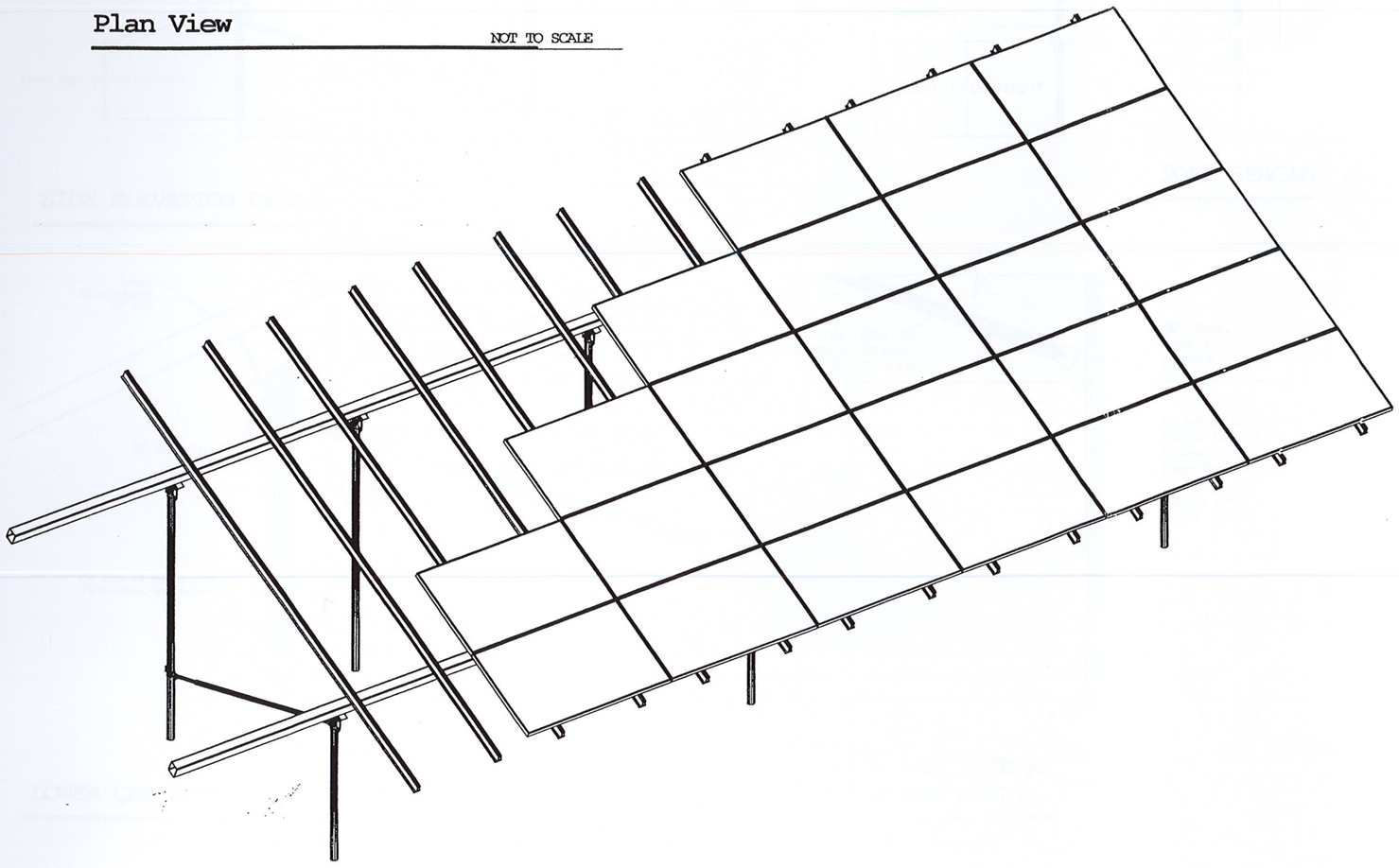
SOLAR ARRAYS AND THEIR SYSTEM COMPONENTS SHALL BE INSTALLED IN CONJUNCTION WITH LOCAL CODES, NY BUILDING CODES, AND WITH THE NEC ACCEPTED BY AHJ.





Plan View

NOT TO SCALE



Site Design Conditions

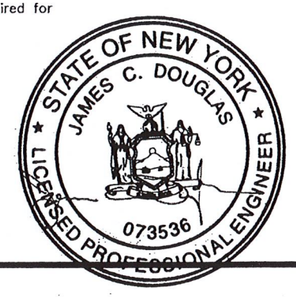
Basic Wind Speed:	90 MPH	Max. Leg Axial Bearing:	5,300 lbs.
Ground Snow Load:	40 PSF	Max. Leg Uplift:	3,175 lbs.
Exposure Category:	C	Max. Lateral Resistance:	2,215 lbs.
Site Contour:	<5 Degree Slope	Top Rail Max. Loading:	104.6 plf
Helical Pile Depth:	66" Min	Lateral Resistance Plate Size:	Not Req'd

Net design pressures were calculated in accordance with ASCE 7-05 section 6.5.13, "Design Wind Loads on Open Buildings with Monoslope, Pitched, or Troughed Roofs". All load cases were evaluated in determining the limiting design conditions. The data table above provides the results for the limiting load case. Maximum leg reaction forces represent the highest load condition seen by any leg in the structure. All legs in the structure are designed to meet the maximum load conditions.

5Lx8C Sub-Array Design Conditions

Front Leg Height:	42¼"	Array Tilt Angle:	25 Degrees
Rear Leg Height:	89¾"	Overall Array East-West Dim:	41'-1"
North-South Leg Spacing:	102"	Number of Modules/Sub-Array:	40
West Span Leg Spacing:	14'-9"	Number of Sub-Arrays:	2
East Span Leg Spacing:	14'-9"	Module Columns/Sub-Array:	8
Quantity Center Spans:	0	Number of Module Rows:	5
Center Span Leg Spacing:	N/A	Module Orientation:	Landscape
East & West Overhang:	5'-3"	Module Column Spacing	¼"
Overall Beam Length:	40'-0"	Module Row Spacing	¼"
Front Edge Ground Clearance:	28"	Module Model:	SPR-327NE
Horizontal Rail Material:	5"x4"x⅛" HSS	Module Size:	41.18" x 61.39"
Top Rail Material:	SF Rails	Individual Module Rating:	327 watt
Qty Rails per Panel:	2	Sub Array Power Rating:	13.08 kw
Top Rail Length:	212"	Total Power Rating:	26.16 kw
Top Rail Center Span:	112½"		
Top Rail Overhangs:	49¾"		

(1) Additional North Column is to be installed per field direction. The Column is to support equipment mounting needs. It is not required for North beam support.



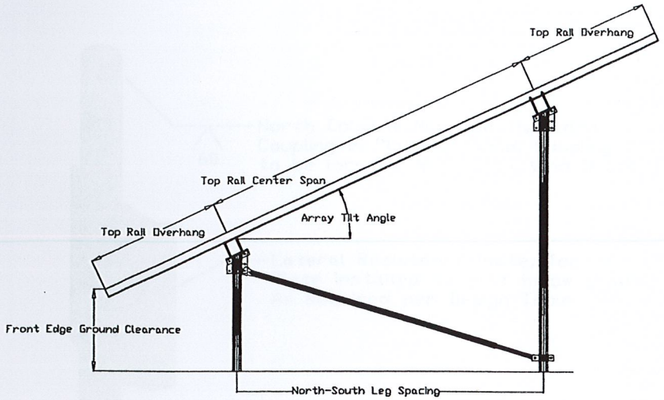
Sheet 1 of 3

Date	Revision	Drawn By:	Review By:
05/12/2015	Original		MZ

New York State Solar Farm, Inc.

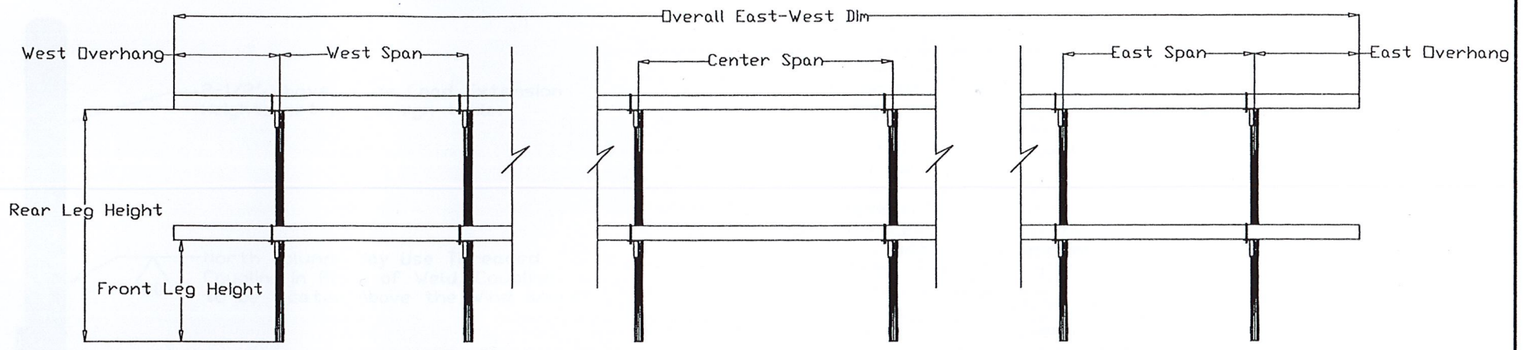
Project:
Cagna Residence
19 Colden Hill Road
Newburgh, NY 12550

Solar Foundations USA
6103 Winterhaven Drive Newark, DE 19702 Ph: (855) 738-7200 Fax: (866) 644-5665



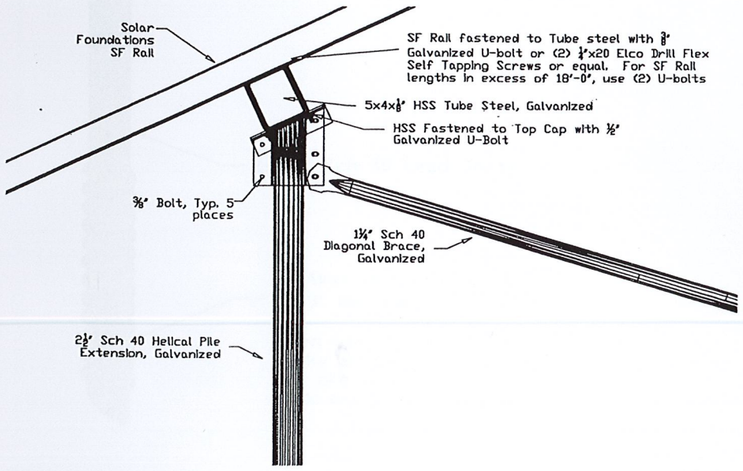
SIDE ELEVATION DETAIL

NOT TO SCALE



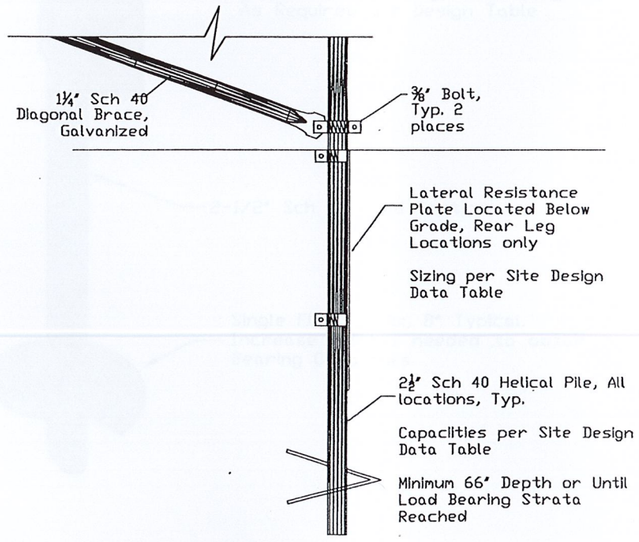
POST SPACING ELEVATION DETAIL

NOT TO SCALE



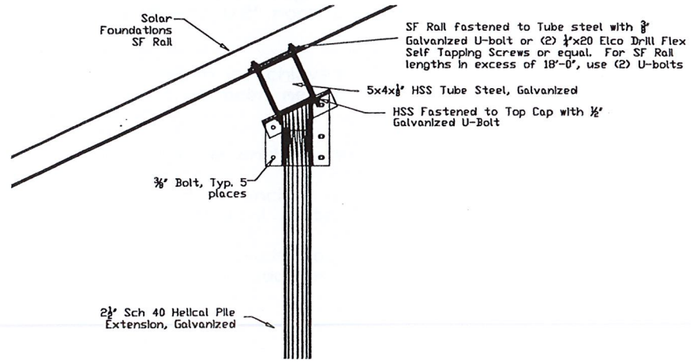
LOWER CAP DETAIL

NOT TO SCALE



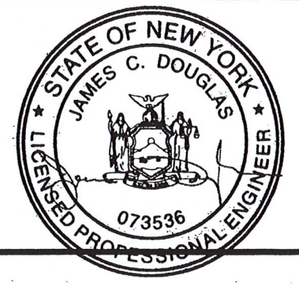
HELICAL PILE AND LATERAL RESISTANCE PLATE DETAIL

NOT TO SCALE



UPPER CAP DETAIL

NOT TO SCALE



Sheet 2 of 3

Date	Revision	Drawn By:	Review By:
05/12/2015	Original		MZ

New York State Solar Farm, Inc.

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Cagna Residence
19 Colden Hill Road
Newburgh, NY 12550

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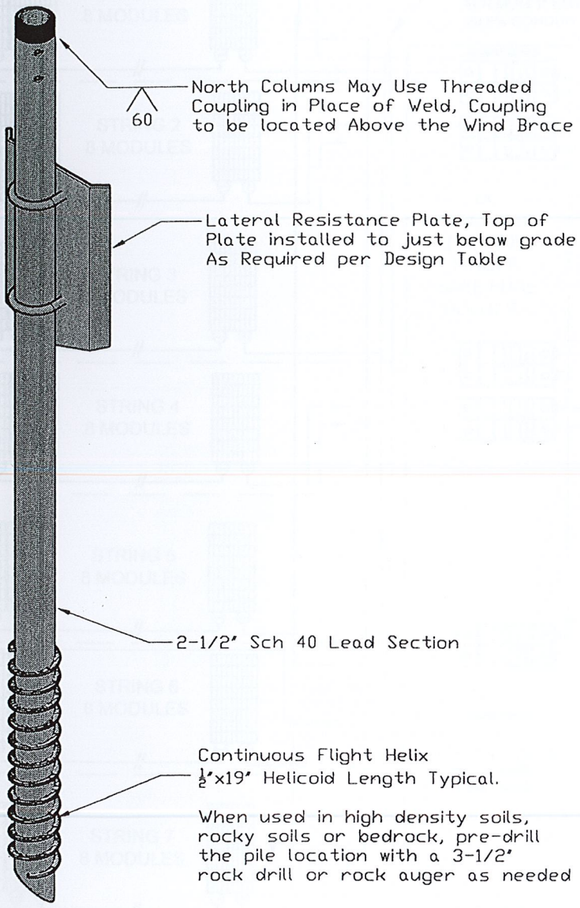
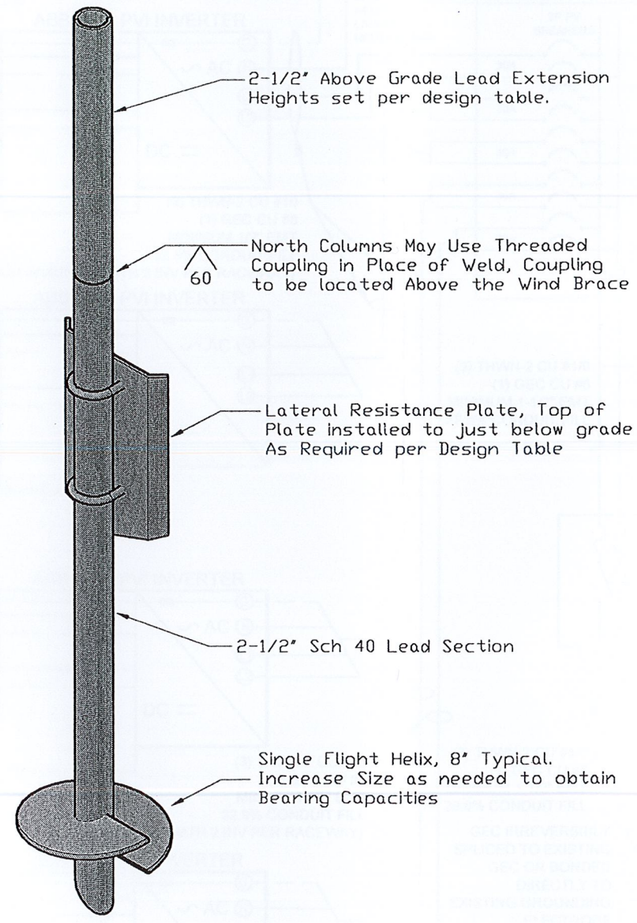




Helical Pile Detail NOT TO SCALE

Installation Requirements

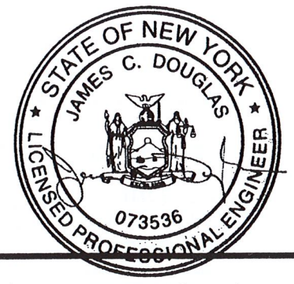
1. The minimum average installation torque required to obtain the required indicated capacities and the minimum installation depth shown on the plans shall be satisfied prior to termination of the installation. The installation torque shall be an average of the installation torques indicated during the last 1 foot of installation.

2. The torsional strength rating of the torque anchor shall not be exceeded during the installation. If the torsional strength limit of the anchor has been reached, but the anchor has not reached the target depth, perform the following:

   2.1. If the torsional strength limit is achieved prior to reaching the target depth, the installation may be acceptable if reviewed and approved by the engineer and/or owner.
   2.2. The installer may remove the torque anchor and install a new one with smaller diameter helical plate.
   2.3. If using a continuous flight pile, pre-drill the pile location with a 3-1/2" rock auger or rock drill as needed.

3. If the target depth is achieved, but the torsional requirement has not been met the installer may do one of the following:

   3.1. Install the torque anchor deeper to obtain the required capacity
   3.2. Remove the torque anchor and install a new one with a larger diameter helical plate or one with multiple helical plates.
   3.3. Reduce the load capacity on the individual torque anchor by providing additional torque anchors at a reduced spacing.



Sheet 3 of 3

Date	Revision	Drawn By:	Review By:
05/12/2015	Original		MZ

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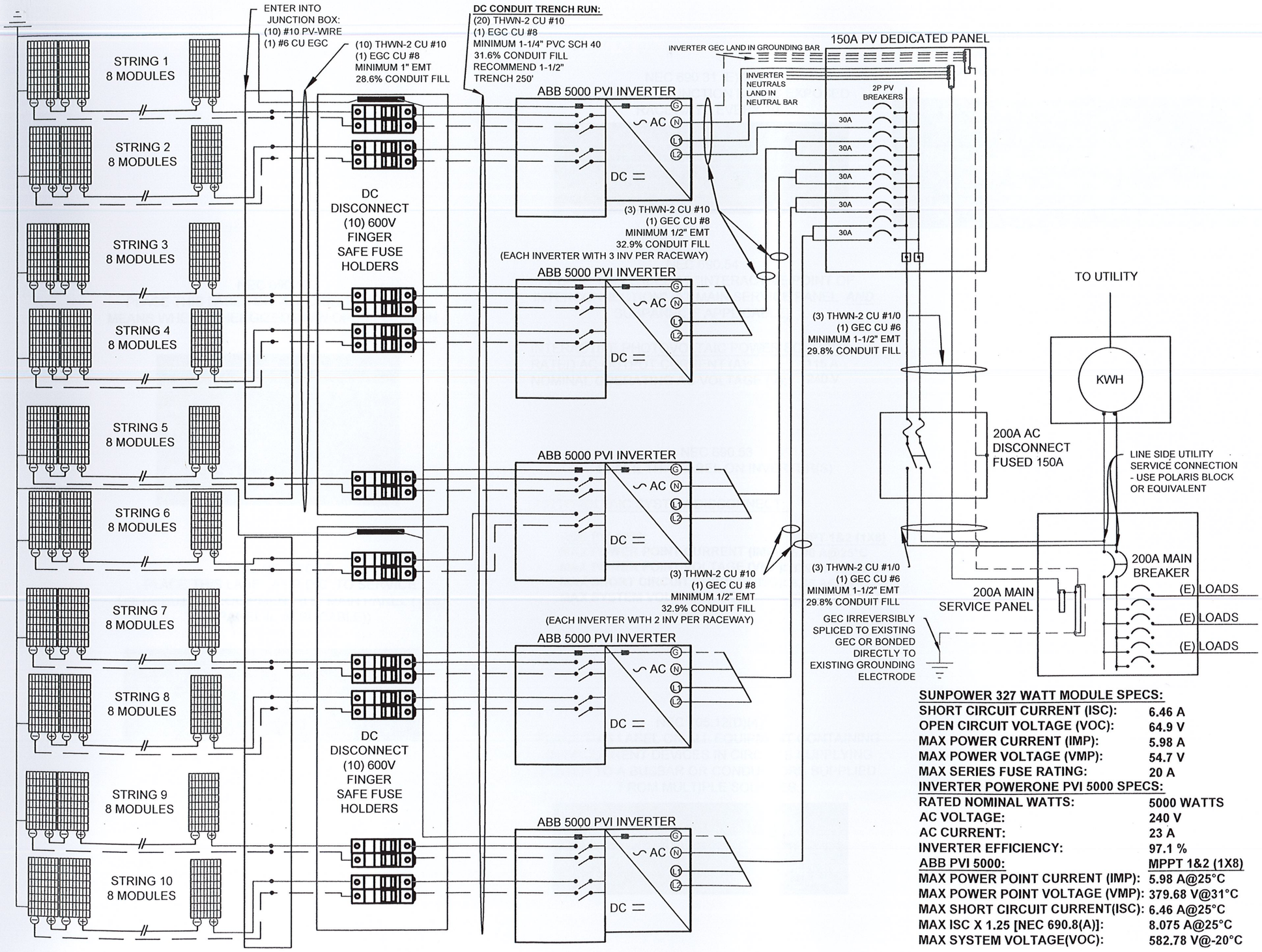

SUNPOWER 327 WATT MODULE SPECS:

SHORT CIRCUIT CURRENT (ISC):	6.46 A
OPEN CIRCUIT VOLTAGE (VOC):	64.9 V
MAX POWER CURRENT (IMP):	5.98 A
MAX POWER VOLTAGE (VMP):	54.7 V
MAX SERIES FUSE RATING:	20 A

INVERTER POWERONE PVI 5000 SPECS:

RATED NOMINAL WATTS:	5000 WATTS
AC VOLTAGE:	240 V
AC CURRENT:	23 A
INVERTER EFFICIENCY:	97.1 %
ABB PVI 5000:	MPPT 1&2 (1X8)
MAX POWER POINT CURRENT (IMP):	5.98 A@25°C
MAX POWER POINT VOLTAGE (VMP):	379.68 V@31°C
MAX SHORT CIRCUIT CURRENT(ISC):	6.46 A@25°C
MAX ISC X 1.25 [NEC 690.8(A)]:	8.075 A@25°C
MAX SYSTEM VOLTAGE(VOC):	582.78 V@-20°C

NEW YORK STATE SOLAR FARM INC.

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GARDINER, NY 12525 USA

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SYSTEM SIZE: 26.16 kW
PV MODULES:(80) SUNPOWER SPR-327NE-WHT-D
INVERTER: ABB POWERONE (5) PVI 5000 (1X8,1X8)

DRAWN BY: NYSOLAR-AS
DATE: 5-4-2015
REV: 0
INSTALLER CODE: 0

SHEET #: PV3

SHEET TITLE: ELECTRICAL
3 OF 10 SHEETS
SCALE: N/A

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NEC 690.17
PLACE THIS LABEL ON ***ALL*** DISCONNECTING MEANS WHERE ENERGIZED IN AN OPEN POSITION

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

NEC 705.12(D)(7)
PLACE THIS LABEL AT P.O.C. TO SERVICE DISTRIBUTION EQUIPMENT (I.E. MAIN PANEL (*AND* SUBPANEL IF APPLICABLE))

WARNING
INVERTER OUTPUT CONNECTION
DO NOT RELOCATE THIS OVERCURRENT DEVICE

NEC 690.31 (E) 3 & 4
PLACE ON ALL JUNCTION BOXES EXPOSED RACEWAYS EVERY 10'

PHOTOVOLTAIC POWER SOURCE

NEC 690.54
PLACE THIS LABEL AT "INTERACTIVE POINT OF INTERCONNECTION" (AT MAIN SERVICE PANEL ***AND*** SUBPANEL IF APPLICABLE)

INTERACTIVE PHOTOVOLTAIC POWER SOURCE
RATED AC OUTPUT CURRENT (A): 115 A
NOMINAL OPERATING AC VOLTAGE (V): 240 V

NEC 690.53
PLACE THIS LABEL ON INVERTER(S)

PHOTOVOLTAIC SYSTEM DISCONNECT:

ABB PVI 5000:	**MPPT 1&2 (1X8)**
MAX POWER POINT CURRENT (IMP):	**5.98 A@25°C**
MAX POWER POINT VOLTAGE (VMP):	**379.68 V@31°C**
MAX SHORT CIRCUIT CURRENT(ISC):	**6.46 A@25°C**
MAX SYSTEM VOLTAGE(VOC):	**582.78 V@-20°C**

NEC 705.12(D)(4)
PLACE THIS LABEL ON ALL EQUIPMENT CONTAINING OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO A BUSBAR OR CONDUCTORS SUPPLIED FROM MULTIPLE SOURCES.

CAUTION
CONTAINS MULTIPLE POWER SOURCES

NEC 690.35(F)
PLACE THIS LABEL AT EACH JUNCTION BOX, COMBINER BOX, INVERTER AND DEVICE WHERE ENERGIZED, UNGROUNDED CIRCUITS MAY BE EXPOSED DURING SERVICE.

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

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INVERTER: ABB POWERONE
(5) PVI 5000 (1X8,1X8)

DRAWN BY: NYSOLAR-AS
DATE: 5-4-2015
REV: 0
INSTALLER CODE: 0

SHEET #: PV4
SHEET TITLE: LABELS
4 OF 10 SHEETS
SCALE: N/A

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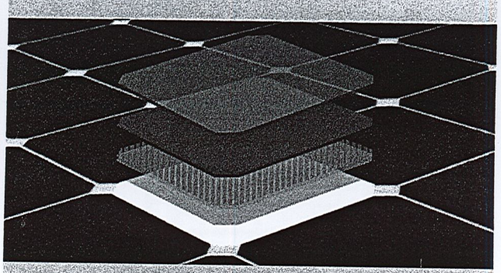
SUNPOWER E20/327 SOLAR PANEL

20% EFFICIENCY
SunPower E20 panels are the highest efficiency panels on the market today, providing more power in the same amount of space

MAXIMUM SYSTEM OUTPUT
Comprehensive inverter compatibility ensures that customers can pair the highest-efficiency panels with the highest-efficiency inverters, maximizing system output

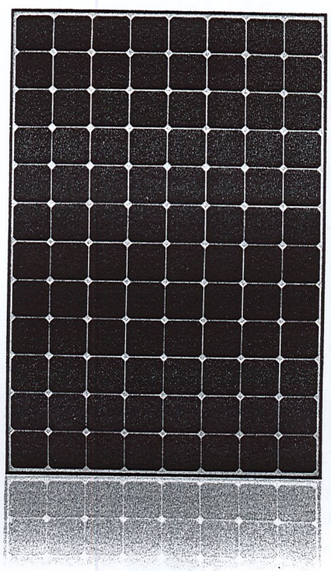
REDUCED INSTALLATION COST
More power per panel means fewer panels per install. This saves both time and money.

RELIABLE AND ROBUST DESIGN
SunPower's unique Maxeon™ cell technology and advanced module design ensure industry-leading reliability



MAXEON™ CELL TECHNOLOGY

Patented all-back-contact solar cell, providing the industry's highest efficiency and reliability

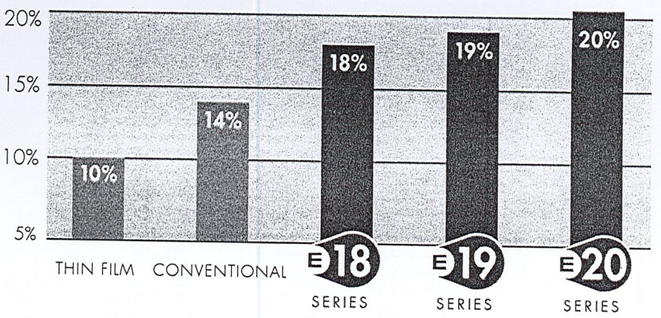


E20 SERIES

THE WORLD'S STANDARD FOR SOLAR™

SunPower™ E20 Solar Panels provide today's highest efficiency and performance. Powered by SunPower Maxeon™ cell technology, the E20 series provides panel conversion efficiencies of up to 20.1%. The E20's low voltage temperature coefficient, anti-reflective glass and exceptional low-light performance attributes provide outstanding energy delivery per peak power watt.

SUNPOWER'S HIGH EFFICIENCY ADVANTAGE



sunpowercorp.com

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SUNPOWER E20/327 SOLAR PANEL

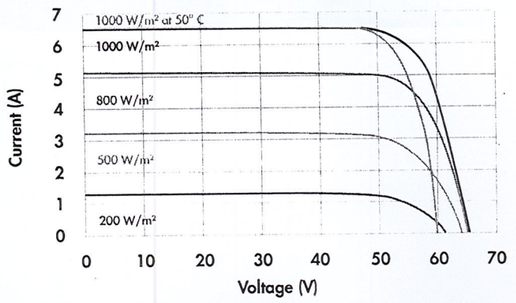
MODEL: SPR-327NE-WHT-D

ELECTRICAL DATA

Measured at Standard Test Conditions (STC): irradiance of 1000W/m², AM 1.5, and cell temperature 25° C

Peak Power (+5/-3%)	P_{max}	327 W
Cell Efficiency	η	22.5 %
Panel Efficiency	η	20.1 %
Rated Voltage	V_{mpp}	54.7 V
Rated Current	I_{mpp}	5.98 A
Open Circuit Voltage	V_{oc}	64.9 V
Short Circuit Current	I_{sc}	6.46 A
Maximum System Voltage	UL	600 V
Temperature Coefficients	Power (P)	– 0.38%/K
	Voltage (V_{oc})	–176.6mV/K
	Current (I_{sc})	3.5mA/K
NOCT		45° C +/– 2° C
Series Fuse Rating		20 A
Grounding		Positive grounding not required

I-V CURVE



Current/voltage characteristics with dependence on irradiance and module temperature.

MECHANICAL DATA

Solar Cells	96 SunPower Maxeon™ cells
Front Glass	High-transmission tempered glass with anti-reflective (AR) coating
Junction Box	IP-65 rated with 3 bypass diodes Dimensions: 32 x 155 x 128 mm
Output Cables	1000 mm cables / Multi-Contact (MC4) connectors
Frame	Anodized aluminum alloy type 6063 (black)
Weight	41.0 lbs (18.6 kg)

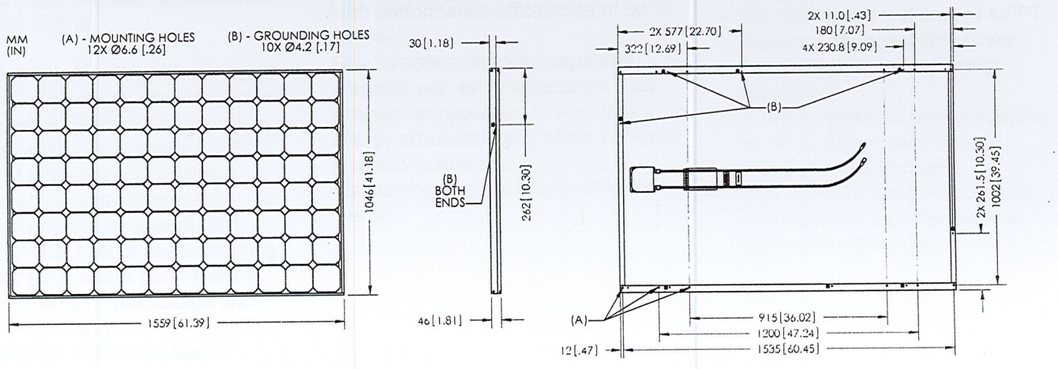
TESTED OPERATING CONDITIONS

Temperature	– 40° F to +185° F (– 40° C to + 85° C)
Max load	113 psf 550 kg/m² (5400 Pa), front (e.g. snow) w/specified mounting configurations 50 psf 245 kg/m² (2400 Pa) front and back (e.g. wind)
Impact Resistance	Hail: (25 mm) at 51 mph (23 m/s)

WARRANTIES AND CERTIFICATIONS

Warranties	25-year limited power warranty
	10-year limited product warranty
Certifications	Tested to UL 1703. Class C Fire Rating

DIMENSIONS

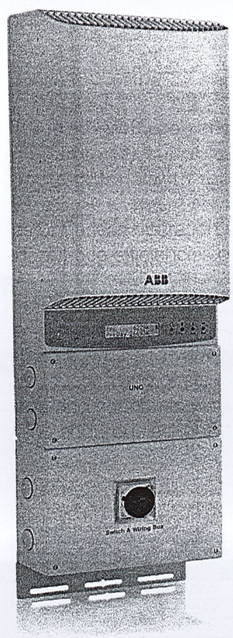


Please read safety and installation instructions before using this product, visit sunpowercorp.com for more details.

sunpowercorp.com
Document #001-65484 Rev*B / LTR_EN
CS 11_316

Solar inverters

ABB string inverters
PVI-5000/6000-TL-OUTD
5kW to 6kW



Designed for residential and small commercial PV installations, this inverter fills a specific niche in the ABB product line to cater for those installations producing between 5kW and 20kW.

This inverter includes dual input section to process two strings with independent MPPT.
The high speed and precise MPPT algorithm offers real-time power tracking and energy harvesting.
Flat efficiency curves ensure high efficiency at all output levels ensuring consistent and stable performance across the entire input voltage and output power range.
This outdoor inverter has been designed as a completely sealed unit to withstand the harshest environmental conditions.

The wide input voltage range makes the inverter suitable to low power installations with reduced string size.
The transformerless operation offers high performance efficiencies of up to 97.1%.
Free remote monitoring capability available with every installation. This enables homeowners to view their energy production and offers installers a proactive and economic way of maintaining and troubleshooting the system.

Highlights:

- Single phase and split phase output grid connection.
- Wide input range for increased stringing flexibility.
- The high speed and precise MPPT algorithm offers real time power tracking and improved energy harvesting.
- Outdoor NEMA 4X rated enclosure for unrestricted use under any environmental conditions.
- Integrated DC disconnect switch in compliance with international Standards (-S Version).

Power and productivity
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ABB

Additional highlights:

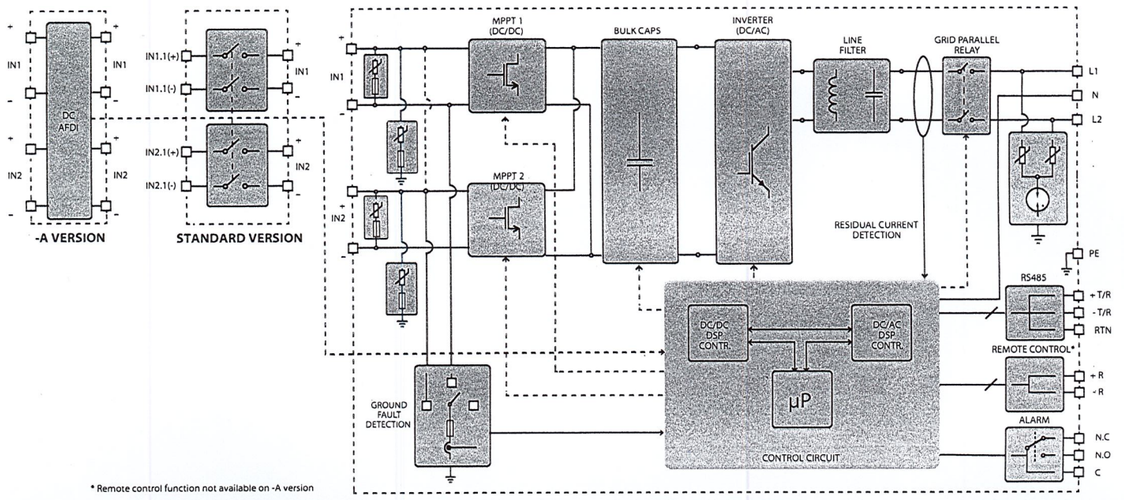
- RS-485 communication interface (for connection to laptop or data logger).
- Integrated Arc Fault Detection and Interruption (-A Version).

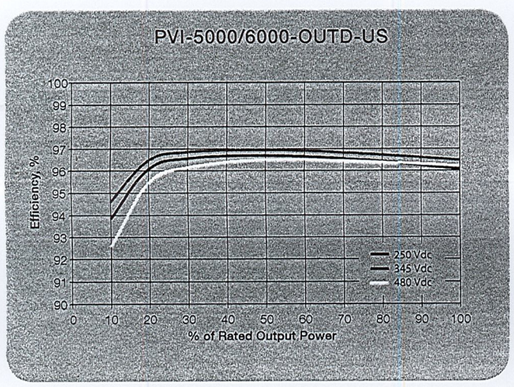
Technical data and types

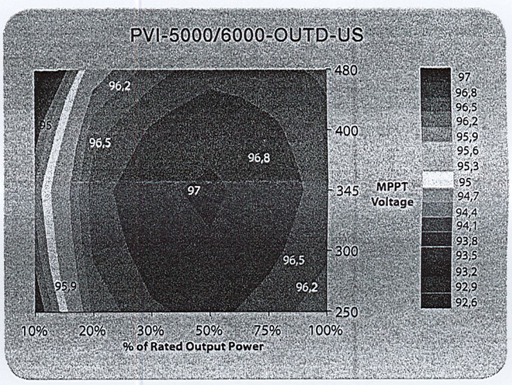
Type code	PVI-5000-OUTD-US			PVI-6000-OUTD-US		
Input side						
Nominal output power	5000W			6000W		
Maximum output power	5000W			6000W		
Rated grid AC voltage	208V	240V	277V	208V	240V	277V
Input side (DC)						
Number of independent MPPT channels	2					
Maximum usable power for each channel	4000W					
Absolute maximum voltage (Vmax)	600V					
Start-up voltage (Vstart)	200V (adj. 120-350)					
Full power MPPT voltage range	200 - 530V					
Operating MPPT voltage range	0.7 x Vstart - 580V					
Maximum current (Idcmax) for both MPPT in parallel	36A					
Maximum usable current per channel	22A					
Number of wire landing terminals per channel	2 Pairs					
Array wiring termination	Terminal block, pressure clamp, AWG16-AWG6					
Output side (AC)						
Grid connection type	1Ø/2W	Split-Ø/3W	1Ø/2W	1Ø/2W	Split-Ø/3W	1Ø/2W
Adjustable voltage range (Vmin-Vmax)	183V-228V	221V-264V	244V-304V	183V-228V	211V-264V	244V-304V
Grid frequency	60Hz					
Adjustable grid frequency range	57-60.5Hz					
Maximum current ($I_{ac,max}$) A_{RMS}	27A_{RMS}	23A_{RMS}	20A_{RMS}	30A_{RMS}	28A_{RMS}	24A_{RMS}
Power factor	> 0.995					
Total harmonic distortion at rated power	< 2%					
Contributory fault current[1]	36.25 A_{pk} / 25.63A_{RMS}	36.5 A_{pk} / 25.81A_{RMS}	31.75 A_{pk} / 22.45A_{RMS}	36.25 A_{pk} / 25.63A_{RMS}	36.5 A_{pk} / 25.81A_{RMS}	31.75 A_{pk} / 22.45A_{RMS}
Grid wiring termination type	Terminal block, pressure clamp, AWG14-AWG4					
Input						
Reverse polarity protection	Yes					
Over-voltage protection type	Varistor, 2 for each channel					
PV array ground fault detection	Pre start-up Riso and Dynamic GFDI (requires floating arrays)					
Output						
Anti-islanding protection	Meets UL 1741/IEEE1547 requirements			Meets UL 1741/IEEE1547 requirements		
Over-voltage protection type	Varistor, 2 (L_1 - L_2 / L_1 - G)			Varistor, 2 (L_1 - L_2 / L_1 - G)		
Maximum AC OCPD Rating	35A	30A	25A	40A	35A	30A
Efficiency						
Maximum efficiency	97.1%					
CEC efficiency	96%	96.5%	96.5%	96%	96.5%	96.5%
User interface	Graphic display			Graphic display		
Operating performance						
Stand-by consumption	<8W_{RMS}			<8W_{RMS}		
Night time consumption	<0.6W_{RMS}			<0.6W_{RMS}		
Communication						
User-interface	16 characters x 2 lines LCD display					
Remote monitoring (1xRS485 incl.)	VSN700 Data Logger (opt)					
Wired local monitoring (1xRS485 incl.)	PVI-USB-RS485_232 (opt.)					
Environmental						
Ambient air operating temperature range	-13°F to +140°F (-25°C to +60°C)			-13°F to +140°F (-25°C to +60°C) with derating above 122°F (50°C)		
Ambient air storage temperature range	-40°F to +176°F (-40°C to +80°C)			-40°F to +176°F (-40°C to +80°C)		
Relative humidity	0-100% RH condensing			0-100% RH condensing		
Acoustic noise emission level	< 50 db (A) @1m			< 50 db (A) @1m		
Maximum operating altitutde without derating	6560 ft (2000 m)			6560 ft (2000 m)		

2. Inverter can apply that much current - Breaker will open

Block diagram of PVI-5000/6000-TL-OUTD







Technical data and types

Type code	PVI-5000-OUTD-US	PVI-6000-OUTD-US
Mechanical specifications		
Enclosure rating	NEMA 4X	
Cooling	Natural convection	
Dimensions (H x W x D)	41.4x12.8x8.6 in (1052 x 325 x218 mm)	
Weight	<59.5lb (27.0 kg)	
Shipping weight	< 78lb (35.4 kg)	
Mounting system	Wall bracket	
Conduit connections	Trade size KOs: (2ea x 1/2") and (2ea x 1-1/4", 3 places side, front, rear)	
DC switch rating (per contact)	25A / 600V	
Safety		
Isolation level	Transformerless (floating array)	
Safety and EMC standard	UL1741, IEE1547, IEE1547.1, CSA-C22.2N. 107.1-01, UL1998 UL 1699B, FCC Part 15 Class B	
Safety Approval	cCSA$_{us}$	
Warranty		
Standard warranty	10 years	
Extended warranty	15 & 20 years	
Available models		
Standard - with DC switch - floating Array	PVI-5000-OUTD-US	PVI-6000-OUTD-US
With DC switch, wiring box and arc fault detector and interruptor	PVI-5000-OUTD-US-A	PVI-6000-OUTD-US-A

*All data is subject to change without notice