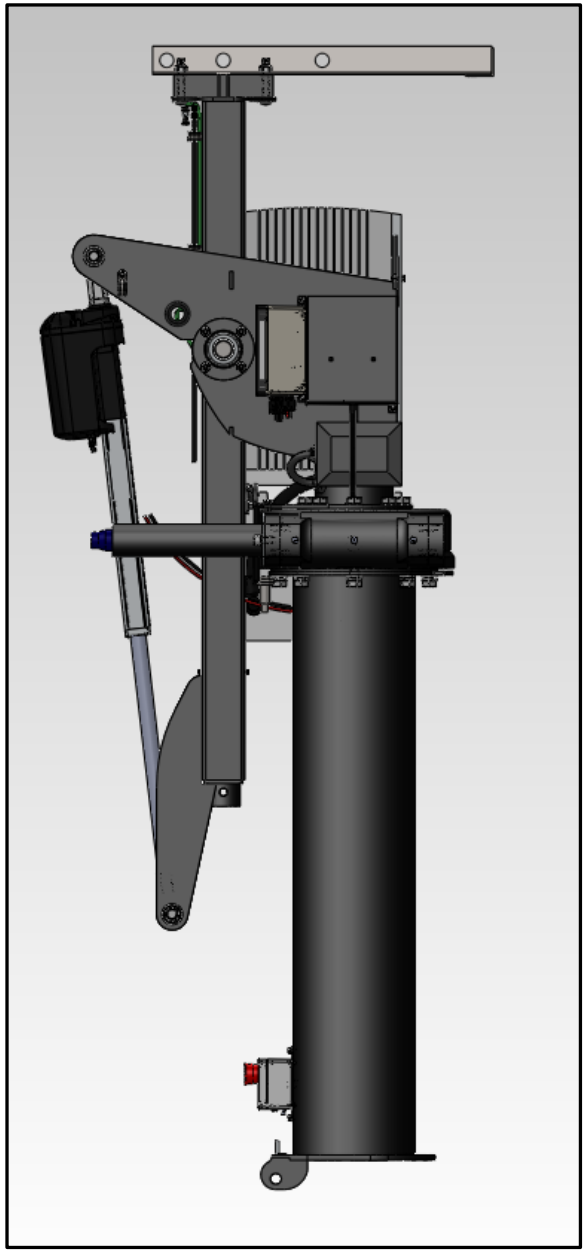

13'
22'
3'



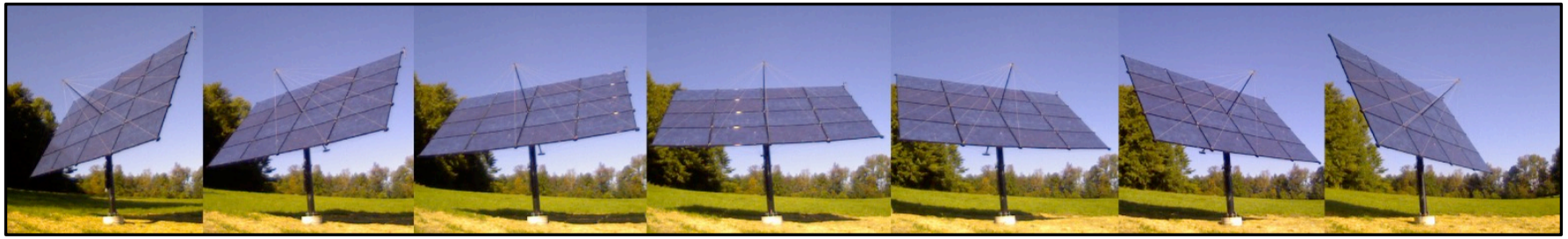
TECHNICAL SPECIFICATION

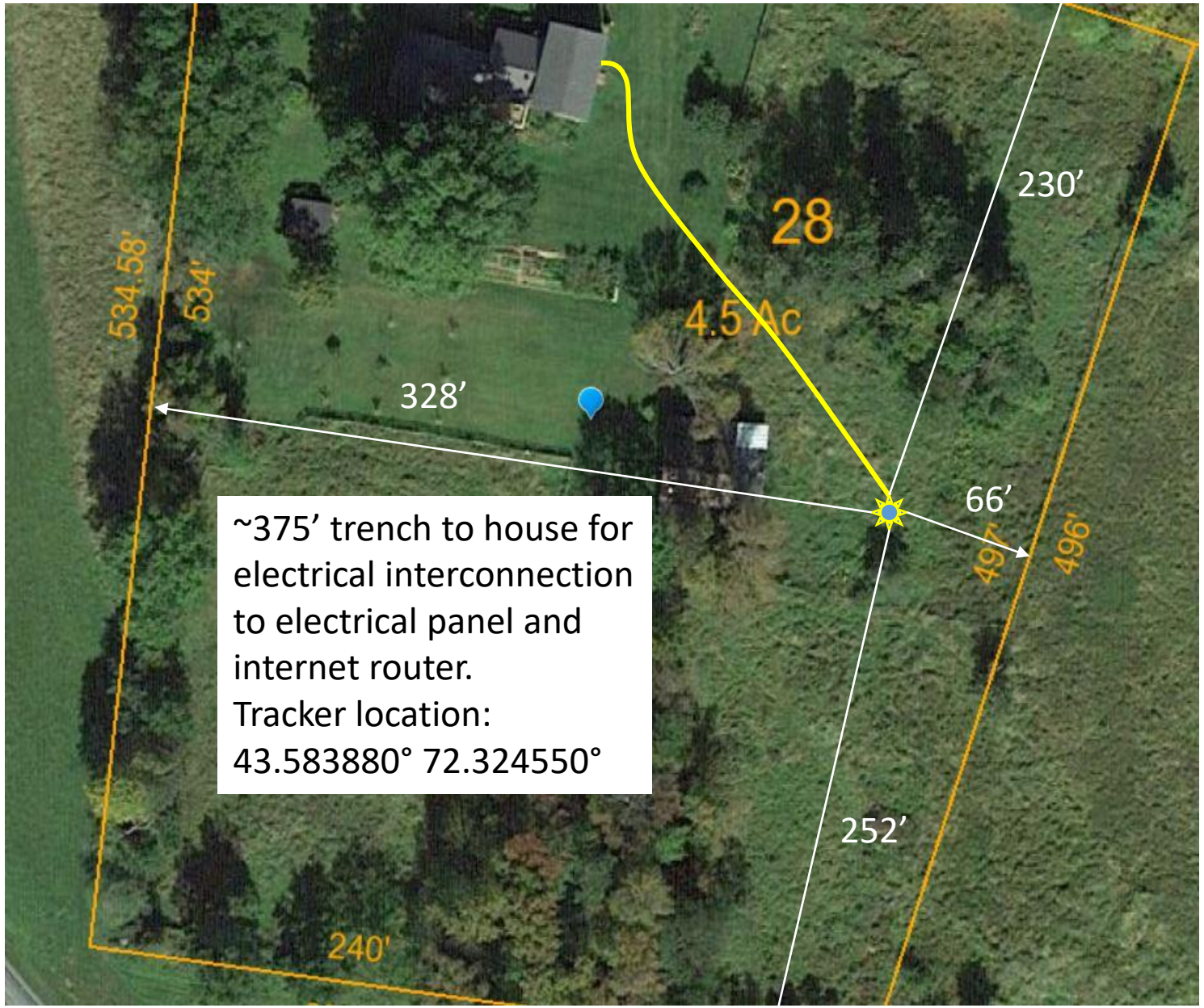
Residential

Output	6,400 kW DC, 240 V AC single-phase
Inverter (single tracker)*	Fronius Primo 6.0-US (6 kW AC)
Inverter (multi-tracker)*	Fronius Primo 6.0-US (6 kW AC)
Modules*	(16) LG-395Q1C-A6 PV Modules
Optimizer*	
Power monitoring	Fonius Monitoring portal (website)
Tracking type	Dual axis with automatic wind stow (>25 mph)
Drive system	LINAK LA37 sealed electric linear actuator (IP66, maintenance free), Kinematics Manufacturing ZKE9C sealed electric slew drive
Control system	Solaflect Tracking Controller utilizing NREL Solar Position Algorithm, network enabled
Materials	Powder coated steel, reinforced concrete
Dimensions	Height 16 ft, swing radius 11 ft
Maximum wind speed^	105 MPH Ultimate Wind Speed
Codes and standards	NEC, UL, NEMA, CE, FCC
Patents	Patents and patents pending

*Flexibility in module and inverter choice, please inquire at info@solaflect.com

^Inquire about specifics at info@solaflect.com




28
4.5 Ac
534.58'
534'
328'
230'
66'
497'
496'
252'
240'
~375’ trench to house for electrical interconnection to electrical panel and internet router.
Tracker location:
43.583880° 72.324550°

Tap for solar occurs :
□ On service conductors in main panel
□ In outdoor meter-breaker
☑ Other: line-side tap

Solar production conductors terminate on upper terminals in gross production meter

Existing System

Tracker Core: 6 kW System

PV Array (16 modules)

Utility Service 120/240V

Utility Net Meter

Grid tap

Primary AC Disconnect 2P40A

Main breaker at meter? NA A

Meter Location:

NW corner of house

100 A
Main breaker

House Main Panel

Tracker AC Disconnect Panel (3R)
2P40A 20A GFCI

WR/TR outlet, weatherproof enclosure

Gross Production Meter *(if applicable)*

AC / DC

Fronius Primo 6.0-1 6.0 kW Inverter

PV Module # 1

PV Module # 2

...Modules 3-15...

PV Module # 16

3x 6AWG Copper THHW + 10AWG GRN in ¾" HDPE Cable In Conduit buried 18" below surface

Max DC load: 9300 WDC STC
Posted DC Disconnect Ratings
Max Voltage: 600 V DC
Max Circuit Current: 36 A DC

PV Module Description:

STC Wattage per mod: 400

Manuf: LG

Model #: LG400A1C-V5

Total DC STC load: 6,400

Existing Components

New Components

Conductor notes

REV	Date	Description
0	09/28/21	Initial release

SOLAFLECT ENERGY
Norwich, VT 05055 (802) 281 4284

DIMENSIONS IN INCHES
TOLERANCES:
ONE PLACE DEC. +/- 0.100
TWO PLACE DEC. +/- 0.015
THREE PLACE DEC. +/- 0.005
ANGULAR +/- 2 deg

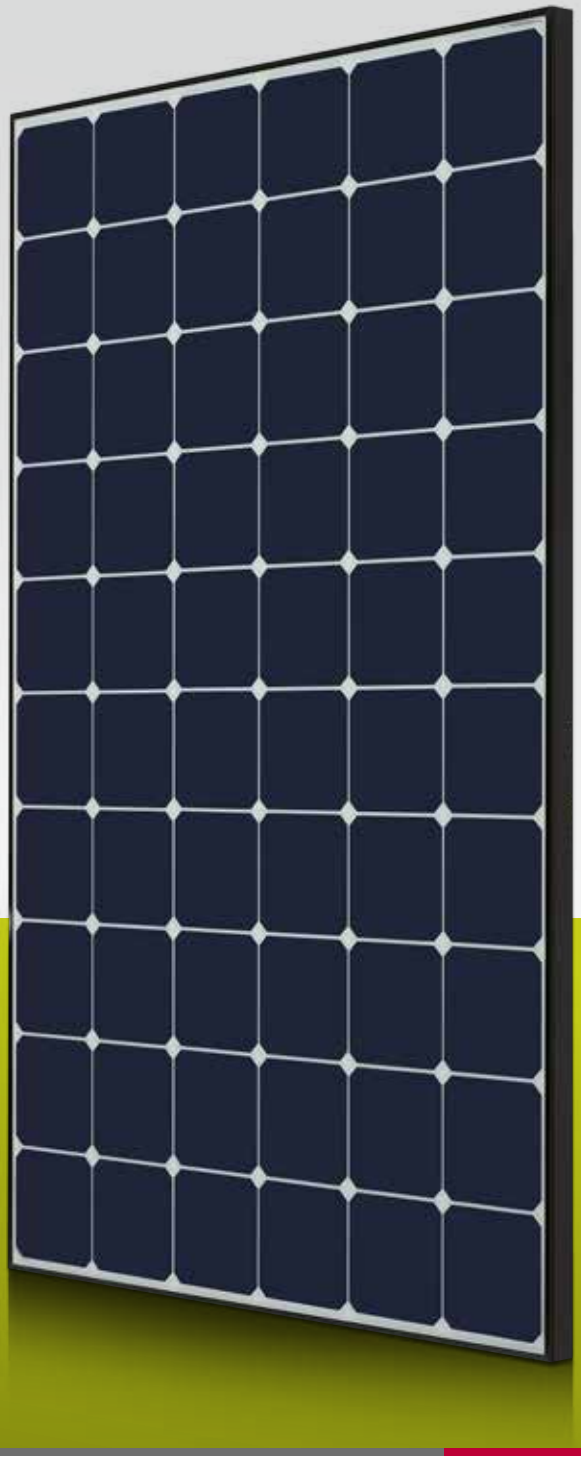
TITLE
One Line Diagram Hakan Tell

DRAWN DL | DATE 09/28/21

DRAWING NUMBER SFxxxxx

EN

The new high performance champion



25 YEARS LG
Product and Performance Warranty

Up to 400 Watts
Contactless cellfront
Aesthetic Design

LG
Life's Good

LG NeON®R
www.lg.com/uk/business/solar

LG NeON® R – performance & design with passion

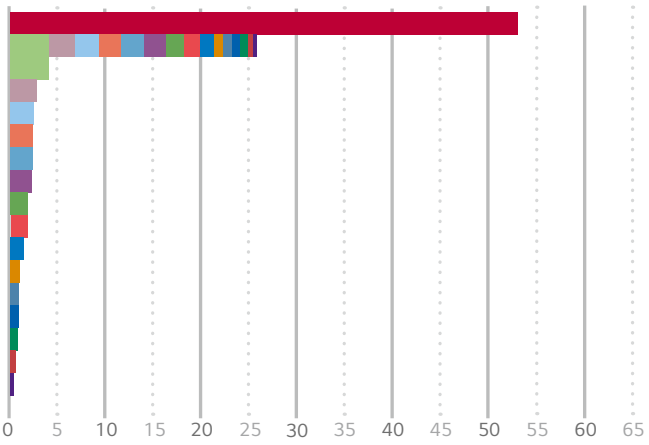
The LG NeON® R is the new high-performance solar module from LG. Its aesthetic design and outstanding performance of up to 400 Wp is a valuable addition to any roof. The 60 cell solar module can endure a static front load up to 6,000Pa, has an expanded product warranty of 25 years and a once-again improved linear performance warranty.

Local guarantor, global security

LG Solar is part of LG Electronics, a global and financially strong company, with over 60 years of experience.

Good to know: LG Electronics is the warrantor for your solar modules.

The Warrantor's 2019 Global Sales in Billions of US Dollars



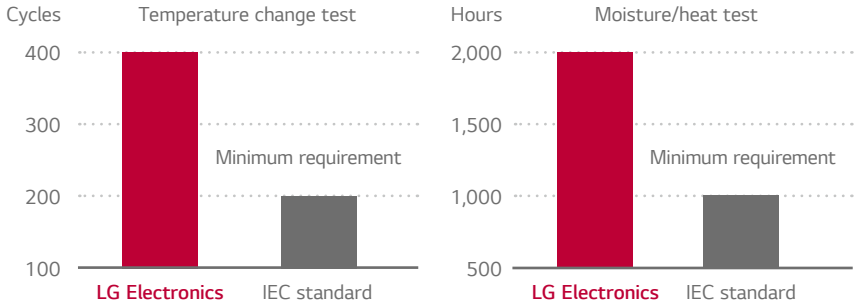
LG Electronics	**$53.0bn**
All below combined	$26.2bn
Jinko Solar*	$4.1bn
JA Solar*	$2.8bn
LONGi	$2.5bn
Canadian Solar*	$2.4bn
Trina Solar*	$2.4bn
Hanwha Q Cells*	$2.3bn
First Solar*	$1.9bn
Risen Energy*	$1.8bn
Sunpower/Maxeon	$1.4bn
Astronergy*	$1.0bn
Talesun Solar*	$0.9bn
Suntech Power*	$0.9bn
GCLSI*	$0.8bn
Panasonic*	$0.6bn
REC Group*	$0.4bn

*2019 Annual Financial Statements, IHS Markit - PV Module supplier Top 15

Excellent quality, independently tested

You can rely on LG. We test our products with double the intensity specified in the IEC standard. This quality is valued by installers across Europe, which is why they have awarded our LG solar modules the Top Brand PV stamp of quality for the highest recommendationrates for the eighth time in a row.

EUPD RESEARCH TOP BRAND PV MODULES EUROPE 2021

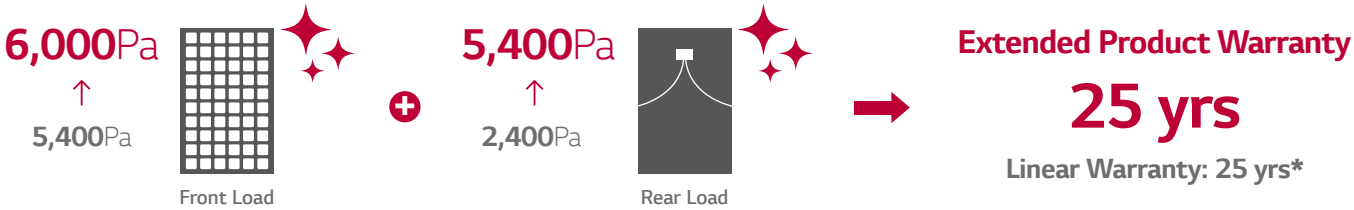


Strong design, powerful performance

The busbars on the LG NeON® R were mounted on the rear of the cells to expose the entire front side to light and therefore generate more electricity. LG creates an innovative and aesthetic cell design by incorporating 30 rear-side busbars instead of the standard busbars on the cell front, a revolutionary approach that guarantees outstanding module performance.

Powerful design, guaranteed robust (LG Standard)*

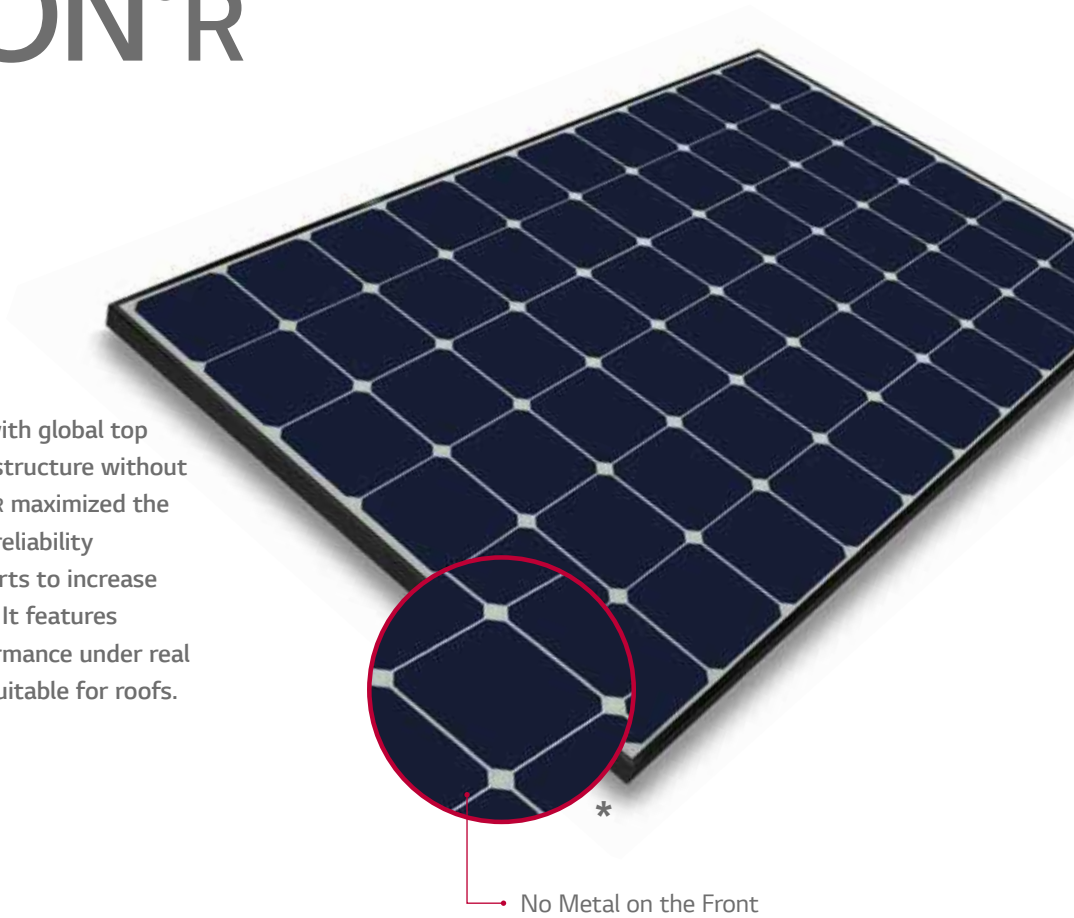
With reinforced frame design, LG NeON® R can endure a front load up to 6,000Pa (represents snow height of normal snow of more than 1.8 meters) and a rear load up to 5,400Pa (represents wind speed of up to 93 m/s, compare max. wind speed of Hurricane Katrina 2005 of max. 75 m/s).



* Module fully complies with the new IEC 61215-2: 2016 test procedures which confirmed 5.400 Pa front and 4.000 Pa rear side load. LG made internal tests to confirm 6.000 Pa front and 4.000 Pa rear side load also with new IEC 61215-2: 2016 norms. Further tests are on-going. Unless these tests turn out differently, LG confirms 6.000 Pa / 5.400 Pa.
** 1) First year: min. 98,5 %. 2) From 2nd year: max. 0.25 % annual degradation. 3) 25 years: 92.5 %.

LG NeON®R

400W | 395W | 390W



60 cell

LG NeON® R is a powerful product with global top level performance. Applied new cell structure without electrodes on the front, LG NeON® R maximized the utilization of light and enhanced its reliability LG NeON® R demonstrates LG's efforts to increase customer's values beyond efficiency. It features enhanced warranty, durability, performance under real environment, and aesthetic design suitable for roofs.

Key Features

Enhanced Performance Warranty

LG NeON® R has an enhanced performance warranty. After 25 years, LG NeON® R is guaranteed at least 92.5 % of initial performance.

High Power Output

The LG NeON® R has been designed to significantly enhance its output making it efficient even in limited space.

Aesthetic Roof

LG NeON® R has been designed with aesthetics in mind: no electrode on the front that makes new product more aesthetic. LG NeON® R can increase the value of a property with its modern design.

Outstanding Durability

With its newly reinforced frame design, LG NeON® R can endure a front load up to 6,000Pa, and a rear load up to 5,400Pa.

Better Performance on a Sunny Day

LG NeON® R now performs better on a sunny days thanks to its improved temperature coefficient.

25 Years Product Warranty

In addition to the extended performance guarantee LG also offers a strong product guarantee for 25 years.

About LG Electronics

LG Electronics is a global big player, committed to expanding its operations with the solar market. The company first embarked on a solar energy source research program in 1985, supported by LG Group's vast experience in the semi-conductor, LCD, chemistry and materials industries. In 2010, LG Solar successfully released its first MonoX® series to the market. The LG NeON® (previous. MonoX® NeON), NeON®2, NeON®2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG Solar's lead, innovation and commitment to the industry.

* The darkness of the panel may vary depending on the specific manufacturing procedure, and does not affect the quality and performance of the panel.

Mechanical Properties

Cells	6 x 10
Cell Vendor	LG
Cell Type	Monocrystalline / N-type
Dimensions (L x W x H)	1,740 x 1,042 x 40mm
Front Load*	6,000Pa
Rear Load*	5,400Pa
Weight	18.5 kg
Connector Type	MC4 / Stäubli
Junction Box	IP68 with 3 Bypass Diodes
Cables	1,250 mm x 2 ea
Glass	Tempered Glass with AR Coating
Frame	Anodized Aluminium

*Manufacturer Declaration according to IEC 61215 : 2005
#Mechanical Test Loads 5400 Pa / 4000 Pa based on IEC61215-2 : 2016
(Test Load = Design Load x Safety Factor (1.5))

Certifications and Warranty

Certifications	IEC 61215-1/-1-1/2: 2016, IEC 61730-1/2: 2016
	IEC 61701:2011 Severity 6 (Salt mist corrosion test)
	IEC 62716:2013 (Ammonia corrosion test)
	ISO 9001, ISO 14001, ISO 50001 ,OHSAS 18001
Module Fire Performance	Class C
Product Warranty	25 Years
Output Warranty of Pmax	25 years linear warranty[1]

[1] 1) First year 98,5%. 2) after 2nd year. 0,25 annual degradation 3) 25 years: min 92,5%

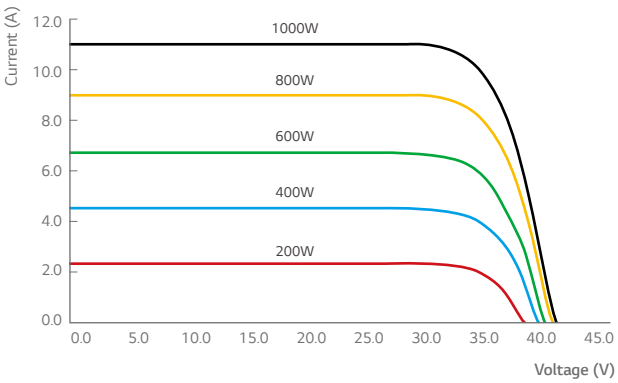
Temperature Characteristics

NMOT	[°C]	44 ± 3
Pmax	[%/°C]	-0.29
Voc	[%/°C]	-0.24
Isc	[%/°C]	0.04

Packaging Configuration

Number of Modules Per Pallet	[EA]	25
Number of Modules Per 40ft HQ Container	[EA]	650
Packaging Box Dimensions (L x W x H)	[mm]	1,790 x 1,120 x 1,213
Packaging Box Gross Weight	[kg]	498

Characteristic Curves



Electrical Properties (STC[3])

Model		LG400Q1C-A6	LG395Q1C-A6	LG390Q1C-A6
Maximum Power (Pmax)	[W]	400	395	390
MPP Voltage (Vmpp)	[V]	37.2	37.0	36.7
MPP Current (Impp)	[A]	10.76	10.69	10.63
Open Circuit Voltage (Voc, ± 5%)	[V]	43.8	43.6	43.5
Short Circuit Current (Isc, ± 5%)	[A]	11.32	11.29	11.26
Module Efficiency	[%]	22.1	21.8	21.5
Operating Temperature	[°C]	-40 ~ +85		
Maximum System Voltage	[V]	1,000		
Maximum Series Fuse Rating	[A]	20		
Power Tolerance	[%]	0 ~ +3		

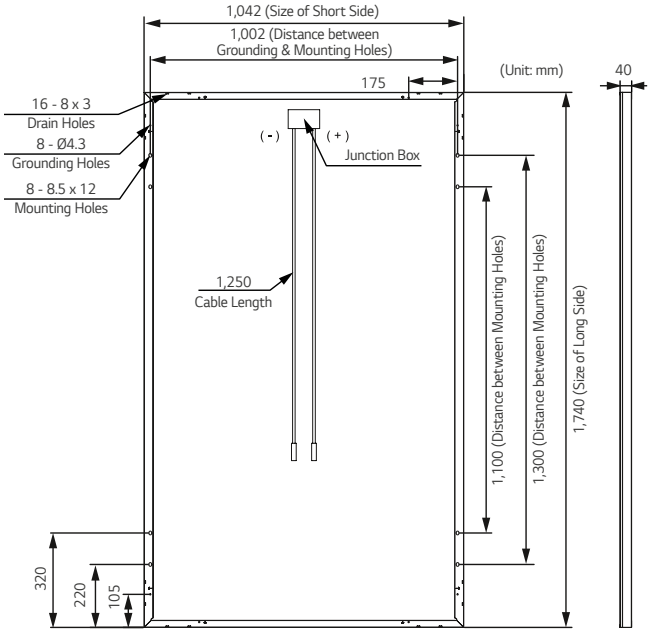
[3] 1) STC (Standard Test Condition): Irradiance 1,000 W/m², module temperature 25 °C, AM 1.5, Measure Tolerance of Pmax: ± 3 %.

Electrical Properties (NMOT[4])

Model		LG400Q1C-A6	LG395Q1C-A6	LG390Q1C-A6
Maximum Power (Pmax)	[W]	303	299	296
MPP Voltage (Vmpp)	[V]	35.2	34.9	34.7
MPP Current (Impp)	[A]	8.62	8.57	8.52
Open Circuit Voltage (Voc)	[V]	41.8	41.6	41.5
Short Circuit Current (Isc)	[A]	9.13	9.10	9.07

[4] NMOT (Nominal Module Operating Temperature) : Irradiance 800 W/m2, Ambient temperature 20 °C, Wind speed 1 m/s, Spectrum AM 1.5

Dimensions (mm)



The distance between the center of the mounting/grounding holes.

LG ELECTRONICS U.K. LTD.
Velocity 2, Brooklands Drive
Brooklands, Weybridge, KT13 0SL
United Kingdom
E-Mail: solar-marketing@lge.de
www.lg.com/uk/business/solar

All details in this data sheet comply with DIN EN 50380.
Subject to errors and alterations.
Date: 02/2021
Document: DS-Q1C-A6-EN-202102

STRUCTURAL GENERAL NOTES – APPLICABLE TO ALL CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS

A. GENERAL REQUIREMENT:

1. PSE recommends that the construction be performed by a licensed contractor who has at least 5 years of remodeling experience with similar projects. Contractor shall submit a list of similar projects to the owner before proceeding with construction.
2. Furnish all labor, materials, and equipment necessary to complete the work shown or inferred by these drawings.
3. Where construction details are not shown or noted for any part of the work, such details shall be the same as for similar work shown on the drawings.
4. Notes and details on the drawings take precedence over the general notes and typical details in case of conflict.
5. Pipes, ducts, sleeves, chases, etc. shall not be placed in slabs, beams, or walls unless specifically shown or noted.
6. Locate and protect underground or concealed conduit, plumbing or other utilities where new work is being performed.
7. The contract drawings and specifications represent the finished structure and do not indicate methods, procedures or sequence of construction. The contractor shall take necessary precautions to maintain and insure the integrity of the new and any existing structures during construction. The design stresses shall not be exceeded during construction based on the age of each element. Neither the owner nor Architect/Engineer will enforce safety measure regulations. Contractor shall design, construct and maintain all safety devices, including shoring and bracing for the new and any existing structures and shall be solely responsible for conforming to all local, state and federal safety and health standards, laws and regulations.
8. Obtain prior written approval for any changes to the drawings.
9. The contractor shall review and compare the structural drawings with all other Construction Documents, such as Architectural, Mechanical and Electrical drawings, specifications, etc. Do not scale drawings. The contractor shall verify dimensions, elevations and all information. Report, in writing, any inconsistencies, errors, or omissions to the Architect/Engineer of record before proceeding with the work.
10. All existing constructions, if any, are shown schematic only. Contractor is responsible to verify actual conditions and allow for them in his bid. Notify the Architect/Engineer, in writing, in case of any discrepancy between actual conditions and what is shown on the structural drawings before proceeding with the work.
11. See Architectural, Mechanical, Electrical and other drawings for embedded items.
12. Shop drawings:
    a. Any detail on the shop drawing that deviates from the Construction Documents shall be marked with the note "This is a change"
    b. Shop drawing submittals processed by the Structural Engineer are not Change Orders.
    c. Shop drawings shall be submitted to the Architect/Engineer prior to fabrication and construction regarding all structural items including:
        - Bamboo roof framing plan
        - All bamboo roof, wall and floor panels
        - Bamboo trusses
13. All communication shall be in writing. No verbal communications, decisions, instructions or approvals shall be valid.

B. FOUNDATION

1. The building shall bear on a soil with minimum allowable bearing capacity of 1500 PSF, contractor to verify. Due to the lack of specific geotechnical information for this site, a geotechnical soil investigation is recommended. PSE is not responsible for any future defects resulting from unreported condition mitigating the above assumption.
2. Soft soil shall or fill material shall be removed and replaced with competent granular engineering fill. The new fill shall be compacted in 8" layers to gain 98%of its maximum dry density according to ASTM D–698 standard proctor, and be capable of supporting the above bearing capacity.
3. Footing shall be stepped as required to maintain minimum required frost depth, FD, below finished grade.
4. When the finished crawl space elevation is lower than the outside finished grade, or when it is required by the Geotechnical investigative report, or the building department, provide 4 inch diam. perforated drain pipe below the top of the footing. Encase the pipe in 18X18 inches free–drain crushed stone and fabric at the perimeter of the crushed stone.

C. INSPECTION:

1. All construction shall be inspected by the building officials according to the above Code.
2. It is recommended that the owner or contractor hire Precision Structural Engineering or other Qualified Licenced inspectors to provide inspection during construction.

D. CONCRETE:

1. MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE IS 4000 PSI.
2. All concrete work shall conform to the American Concrete Institute's Standard Building Code Requirements for Structural Concrete, ACI 318, in the above Code. Place concrete in accordance with ACI 301.
3. Materials shall comply with:
    (a) Cement, ASTM C150 Type I or II
    (b) Water, Potable.
    (c) Aggregate, ASTM C33
4. All exposed exterior concrete shall contain the proper admixtures to obtain 5% to 7% Air Entrainment. All interior concrete work shall contain 2% to 4% Air Entrainment.
5. Reinforcing Steel:
    (a) All reinforcing steel shall be ASTM A615 Grade 60.
    (b) Where welding of rebar is required by these drawings, steel shall be pre–heated or steel grade 60–W, ASTMA706 shall be used.
    (c) Bars marked continuous and all vertical steel shall be lapped 55 bar diameters at splices UON on the drawings.
    (d) Vertical bars shall be doweled to supporting members with the same size and spacing of reinforcement shown in the drawing or general notes.
    (e) All reinforcing in grade beams shall be continuous. Lap top steel at midspan. Lap bottom steel at supports.
    (f) All reinforcing bars shall be in the correct place, tied and secured prior to concrete placement. Use chairs, spacers and sand plates as required.
6. Execution:
    (d) All concrete is reinforced concrete unless specifically called out as "Unreinforced". Reinforce all concrete not otherwise shown with same steel as in similar sections or areas.
7. Standard concrete cover of bars unless otherwise noted shall be:
    (a) Where earth formed: 3 inches.
    (b) Board formed then permanently exposed to earth or weather: 2 inches.
8. Slump shall not be more than 4 inches.
9. Water/Cement ratio shall not exceed 0.45.
10. All concrete shall be consolidated with mechanical vibrators.
11. The unit of pour for foundation walls and footings shall not exceed 80 linear feet in any one direction.
12. Construction joints shall be doweled and keyed.
13. No Aluminum or galvanized steel items shall be in contact with the reinforcing steel.
14. Practice for Curing Concrete, ACI 308, ACI 318 and as approved by the Engineer.
15. When air temperature is above 80 degrees Fahrenheit, Hot Weather Concreting ACI 305R shall apply. When the average air temperature is below 40 degree Fahrenheit, Cold Weather Concreting, ACI 306R shall apply.

E. ABBREVIATIONS:

AB	ANCHOR BOLT
ADDL	ADDITIONAL
ALT	ALTERNATE
APA	AMERICAN PLYWOOD ASSOCIATION
ARCH	ARCHITECTURAL
BLKG	BLOCKING
BN	BOUNDARY NAILING
BOF	BOTTOM OF FOOTING
CJ	CONSTRUCTION JOINT OR CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR
CONT	CONTINUOUS
DIM	DIMENSIONS
DWG	DRAWING
E	EXISTING
EA	EACH
EF	EACH FACE
EL	ELEVATION
EMBED	EMBEDMENT
EQ	EQUAL
ES	EACH SIDE
EW	EACH WAY
FD	FROST DEPTH
FEN	FLOOR SHEATHING EDGE NAILING
FF	FINISHED FLOOR
FN	FIELD/INTERMEDIATE NAILING
FTG	FOOTING
GALV	GALVANIZED
HORIZ	HORIZONTAL
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
LGST	LIGHT GAUGE STEEL, COLD–FORMED STEEL
MAX	MAXIMUM
MFR	MANUFACTURER
NO.	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OH	OPPOSITE HAND
OSB	ORIENTED STRAND BOARD
OSV	ON SITE VERIFY
PL	PLATE
PSE	PRECISION STRUCTURAL ENGINEERING
PSF	POUND PER SQUARE FOOT
PT	PRESSURE TREATED
REF	REFERENCE
REN	ROOF SHEATHING EDGE NAILING
REINF	REINFORCEMENT
RFT	RAFTERS
SCHD	SCHEDULE
SIM	SIMILAR
SN	WALL SHEAR NAIL
SPEC	SPECIFICATION
SW	SHEAR WALL
TD	TYPICAL DETAILS
T&G	TONGUE & GROOVE
TN	TOENAIL
TOF	TOP OF FOOTING
TOW	TOP OF WALL
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WEN	WALL EDGE NAIL

PSE Consulting Engineers, Inc.
www.structure1.com
Klamath Falls Office
250 Main Street
Klamath Falls, Oregon 97601
Phone: (541) 850-6300
Fax: (541) 850-6233
info@structure1.com

Project:

FOUNDATION TALL ASSY

New HAmpshire (NH)

Client:

SOLAFLECT ENERGY

Stamp:

10-15-2020

STATE OF NEW HAMPSHIRE – NABIL M TAHA No. 14293 LICENSED PROFESSIONAL ENGINEER

exp: 07-31-2021

REVISIONS:

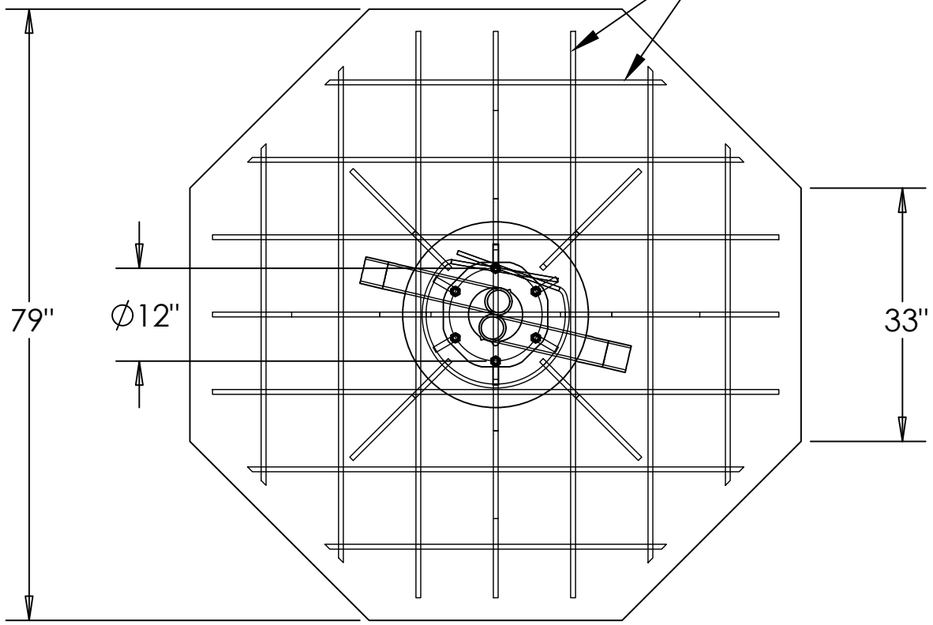
MARK:	DATE:	BY:

DRAWN BY: AF
DESIGNED BY: AF
CHECKED BY: N.T.
ISSUE DATE: 10-15-2020

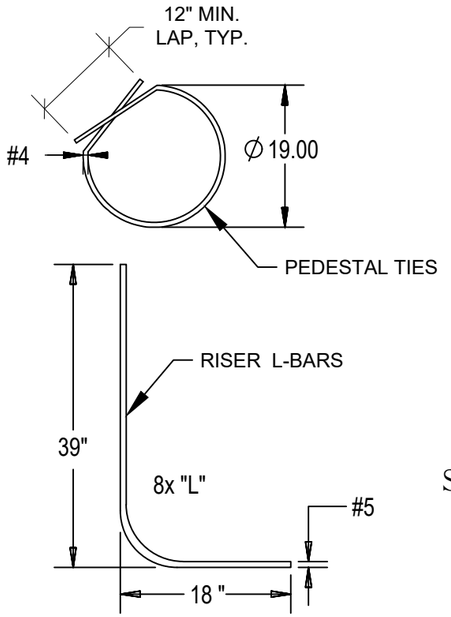
PROJECT NUMBER:
Solaflect Energy 220-1

SHEET TITLE:
GENERAL NOTES

PAGE NO:
S1.0



1 FOUNDATION PLAN
NTS

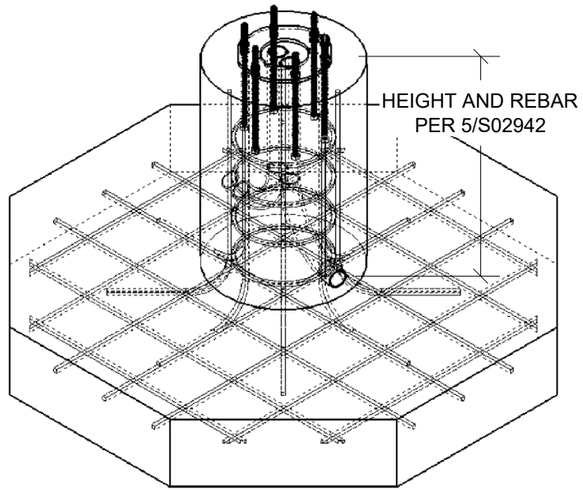


2 REBAR DETAILS
NTS

PSE
Consulting
Engineers,
Inc.

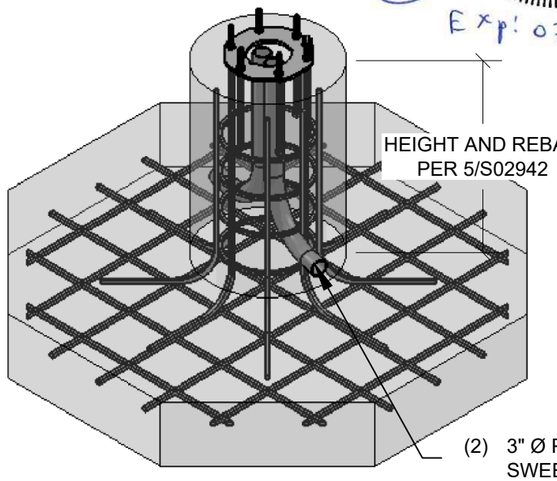
Klamath Falls Office
250 Main Street
Klamath Falls, Oregon 97601
Phone: (541) 850-6300
Fax: (541) 850-6233
info@structure1.com
www.structure1.com

PSEI, PROJECT #:
Solaflect Energy 220-1



3 3D VIEW 1
NTS

10-15-2020

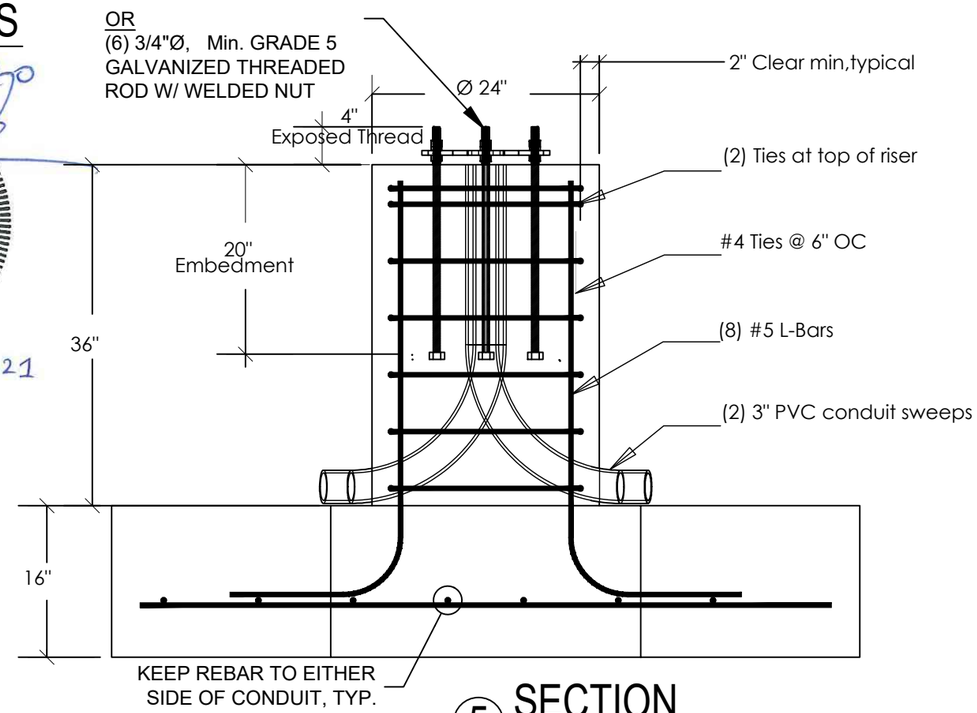


4 3D VIEW 2
NTS

(6) 3/4"Ø, Min. GRADE 5
GALVANIZED HEX BOLTS

OR

(6) 3/4"Ø, Min. GRADE 5
GALVANIZED THREADED
ROD W/ WELDED NUT



5 SECTION
NTS

Design codes and parameters:

a. International Building Code 2015 and local amendments
b. ASCE 7-10
c. Risk Category: I
d. Snow Load: 15 psf
e. Ultimate wind speed with panel 85 degrees from horizontal: 40 mph (31 mph nominal) *
c. Ultimate wind speed with panel 5 degrees from horizontal: 105 mph (Ultimate)
d. Exposure: C
e. Kzt: 1.0
f. Kd: 0.85
g. Sites with unusual conditions shall be evaluated by a licensed engineer

* SOLAFLECT PANEL ASSEMBLY IS DESIGNED TO GO TO HORIZONTAL POSITION WHEN WIND VELOCITY IS 39 MPH ULTIMATE WIND SPEED, 30 MPH NOMINAL WIND SPEED, OR MORE.

STATE OF NEW HAMPSHIRE – PROFESSIONAL ENGINEER – NABIL M TAHA No. 14293 LICENSED

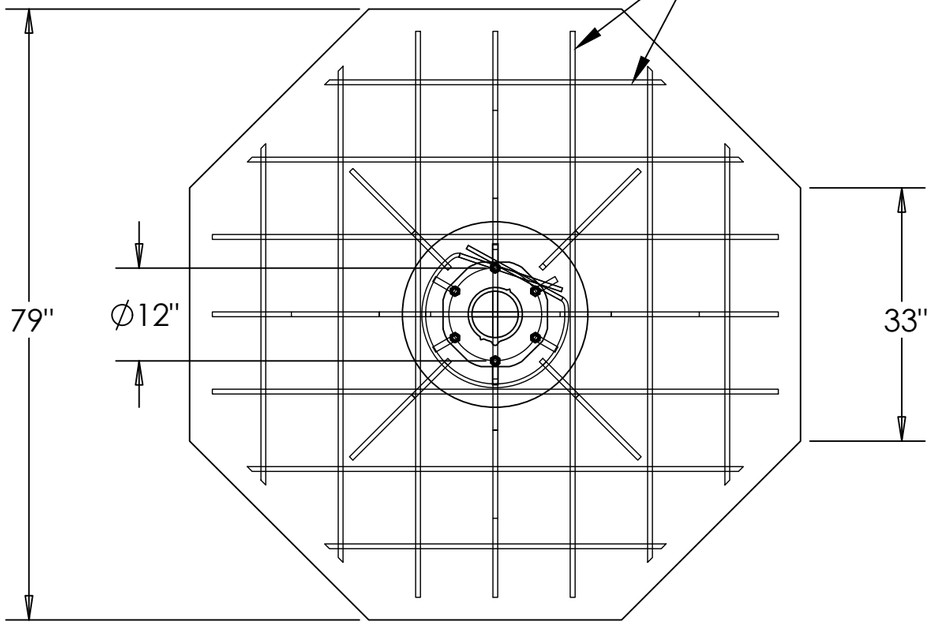
Exp: 07-31-2021

REV	DATE	DESCRIPTION

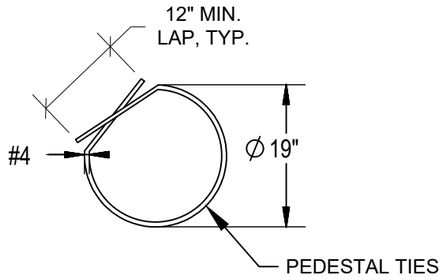
SOLAFLECT ENERGY
Norwich, VT 05055 (802) 649-3700

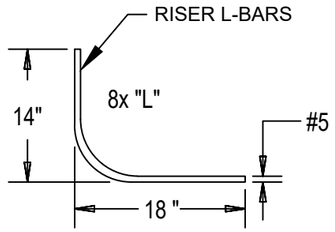
DIMENSIONS IN INCHES
TOLERANCES:
ONE PLACE DEC. +/- 0.100
TWO PLACE DEC. +/- 0.015
THREE PLACE DEC. +/- 0.005
ANGULAR +/- 2 deg

TITLE: Round Concrete Pad ASSY
MATERIAL: XXX
FINISH: XXX
DRAWN: DES
DATE: 2017-04-28
SCALE: X:X
SHEET # OF #
SIZE: B
DRAWING NO.: SF02942



1 FOUNDATION PLAN
NTS





2 REBAR DETAILS
NTS

10-15-2020

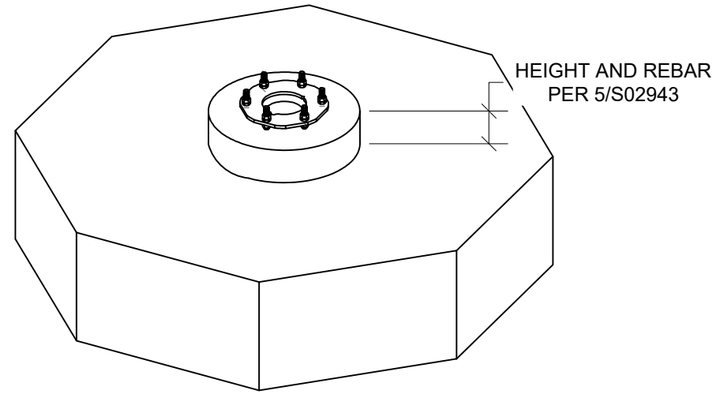
STATE OF NEW HAMPSHIRE
NABIL M TAHA
No. 14293
LICENSED
PROFESSIONAL ENGINEER

Exp: 07-31-2021

PSE
Consulting
Engineers,
Inc.

Klamath Falls Office
250 Main Street
Klamath Falls, Oregon 97601
Phone: (541) 850-6300
Fax: (541) 850-6233
info@structure1.com
www.structure1.com

PSEI, PROJECT #:
Solaflect Energy 220-1

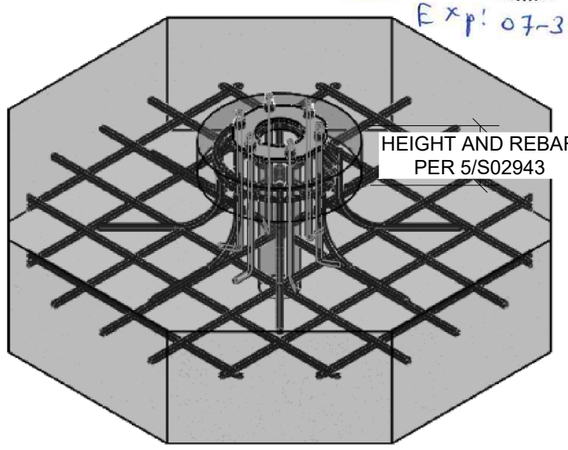


3 3D VIEW 1
NTS

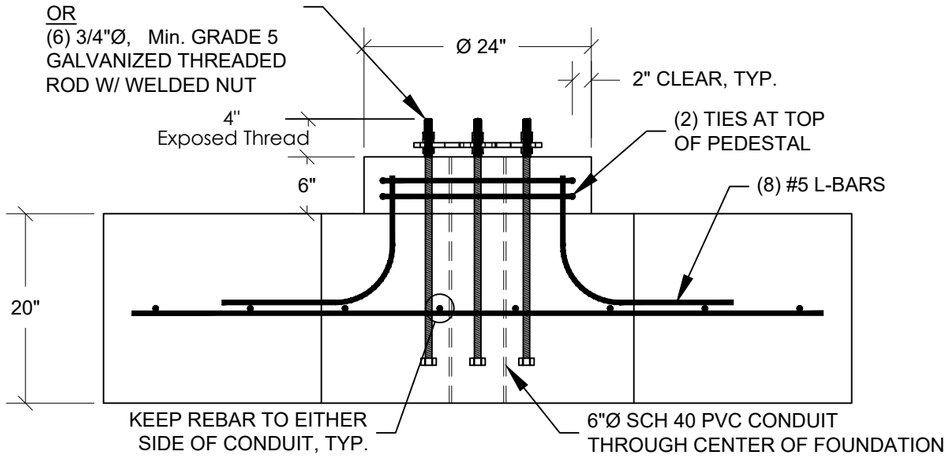
Design codes and parameters:

a. IBC 2015
b. ASCE 7-10
c. Risk Category: I
d. Snow Load: 15 psf
e. Ultimate wind speed with panel 85 degrees from horizontal: 40 mph (31 mph nominal) *
c. Ultimate wind speed with panel 5 degrees from horizontal: 105 mph (81 mph nominal)
d. Exposure: C
e. Kzt: 1.0
f. Kd: 0.85
g. Sites with unusual conditions shall be evaluated by a licensed engineer

* SOLAFLECT PANEL ASSEMBLY IS DESIGNED TO GO TO HORIZONTAL POSITION WHEN WIND VELOCITY IS 39 MPH ULTIMATE WIND SPEED, 30 MPH NOMINAL WIND SPEED, OR MORE.



4 3D VIEW 2
NTS



5 SECTION
NTS

REV	DATE	DESCRIPTION

SOLAFLECT ENERGY
Norwich, VT 05055 (802) 649-3700

DIMENSIONS IN INCHES
TOLERANCES:
ONE PLACE DEC. +/- 0.100
TWO PLACE DEC. +/- 0.015
THREE PLACE DEC. +/- 0.005
ANGULAR +/- 2 deg

TITLE: Round Concrete Pad ASSY
MATERIAL: XXX
FINISH: XXX
DRAWN: DES
DATE: 2017-04-28
SCALE: X:X
SHEET # OF #
SIZE: B
DRAWING NO.: SF02943

EARTHWORK

1. EXISTING UTILITIES: LOCATE BY HAND EXCAVATION AND PROVIDE PROTECTION FROM DAMAGE. COOPERATE WITH OWNER AND UTILITY COMPANIES FOR MAINTAINING SERVICES.

2. PROTECTIONS: PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES IN AREAS OF WORK. BARRICADE OPEN EXCAVATIONS AND PROVIDE WARNING LIGHTS. SLOPE SIDES OF EXCAVATIONS AS REQUIRED FOR SAFE WORKING CONDITIONS. COMPLY WITH REGULATIONS OF AUTHORITIES HAVING JURISDICTION INCLUDING OSHA REGULATIONS FOR ALL EXCAVATION AND BACKFILLING WORK.

3. SATISFACTORY SOIL MATERIALS: DEFINED AS THOSE COMPLYING WITH ASTM D 2487 SOIL GROUPS GW, GP, GM, SM, SW AND SP AND MEETS OR EXCEEDS THE ASSUMED MINIMUM BEARING CAPACITY LISTED IN NOTE 6 BELOW. REFER TO GENERAL GUIDELINES ON THIS DRAWING FOR FURTHER INFORMATION.

4. ENGINEERED FILL: ENGINEERED FILL SHOULD BE CLEAN, WELL GRADED SANDS AND GRAVELS MEETING THE REQUIREMENTS CALLED OUT FOR ITEM 704.08 GRANULAR BACKFILL FOR STRUCTURES IN THE LATEST EDITION OF THE VERMONT AGENCY OF TRNSPORTATION (VTrans) STANDARD SPECIFICATION FOR CONSTRUCTION.

5. SITE MUST BE WELL-DRAINED SO THAT WATER TABLE DOES NOT INTRODUCE POTENTIAL FOR FREEZING BENEATH FOOTING. IF WATER TABLE IS HIGH, FOOTING MUST BE LOWERED BELOW FROST LINE.

6. FOOTINGS: PLACE FOOTINGS ON UNDISTURBED SATISFACTORY SOIL OR COMPACTED STRUCTURAL FILL. ASSUMED BEARING CAPACITY FOR FOUNDATION DESIGN IS A MINIMUM OF 1,500 POUNDS PER SQUARE FOOT.

1 EARTH WORK NOTES
NTS

ACCEPTABLE

MAJOR DIVISIONS			GROUP SYMBOL	GROUP NAME
COURSE GRAINED SOILS MORE THAN 50% RETAINED ON OR ABOVE NO. 200 SIEVE	GRAVEL >50% OF COURSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVEL <5% SMALLER THAN #200 SIEVE	GW	WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL
			GP	POORLY GRADED GRAVEL
		GRAVEL WITH .12% FINES	GM	SILTY GRAVEL
			GC	CLAYEY GRAVE (NOT ACCEPTABLE)
	SAND ≥ 50% OF COURSE FRACTION PASSES NO. 4 SIEVE	CLEAN SAND	SW	WELL-GRADED SAND, FINE TO COARSE SANE
			SP	POORLY GRADED SAND
		SAND WITH 12% FINES	SM	SILTY SAND
			SC	CLAYEY SAND (NOT ACCEPTABLE)

NOT ACCEPTABLE

MAJOR DIVISIONS			GROUP SYMBOL	GROUP NAME
FINE GRAINED SOILS 50% OR MORE THAN 50% PASSING THE NO. 200 SIEVE	SILT AND CLAY LIQUID LIMIT < 50	INORGANIC	ML	SILT
			CL	CLAY OF LOW PLASTICITY, LEAN CLAY
		ORGANIC	OL	ORGANIC SILT, ORGANIC CLAY
			MH	SILT OF HIGH PLASTICITY, ELASTIC SILT
	SILT AND CLAY LIQUID LIMIT ≥ 50	INORGANIC	CH	CLAY OF HIGH PLASTICITY, FAT CLAY
		ORGANIC	OH	ORGANIC CLAY, ORGANIC SILT
HIGHLY ORGANIC SOILS			Pt	PEAT

LETTER	DEFINITION
G	GRAVEL
S	SAND
M	SILT
C	CLAY
O	ORGANIC

LETTER	DEFINITION
P	POORLY GRADED (UNIFORM PARTICLE SIZE
W	WELL-GRADED (DIVERSIFIED PARTICLE SIZES
H	HIGH PLASTICITY
L	LOW PLASTICITY

1 SOIL TYPES
NTS

10-15-2020

STATE OF NEW HAMPSHIRE – PROFESSIONAL ENGINEER – LICENSED
NABIL M TAHA No. 14293

Exp: 07-31-2021

PSE Consulting Engineers, Inc.
Klamath Falls Office
250 Main Street
Klamath Falls, Oregon 97601
Phone: (541) 850-6300
Fax: (541) 850-6233
info@structure1.com
www.structure1.com

PSEI, PROJECT #:
Solaflect Energy 220-1

REV	DATE	DESCRIPTION

SOLAFLECT ENERGY
Norwich, VT 05055 (802) 649-3700

DIMENSIONS IN INCHES
TOLERANCES:
ONE PLACE DEC. +/- 0.100
TWO PLACE DEC. +/- 0.015
THREE PLACE DEC. +/- 0.005
ANGULAR +/- 2 deg

TITLE: Foundation Notes
MATERIAL: XXX
FINISH: XXX
DRAWN: DES
DATE: 2016-06-28
SCALE: X:X
SHEET # OF #
SIZE: B
DRAWING NO.: SF02279.1

ITEM NO.	PART NUMBER	QTY.
1	SF02279 Round Concrete Pad ASSY	1
2	SF02716 Structural ASSY 6.2 - Pedestal Tube: 10" O.D. x 0.25" or 10" Schedule 40	1
3	SF02441 PV Array ASSY v6.1 R	1
4	SF02439 Front Post ASSY v6.1 PV - 1.50" O.D. x 0.25"	1
5	SF02758 Rear Post ASSY v6.2 - 2.00" O.D. x 0.25"	2

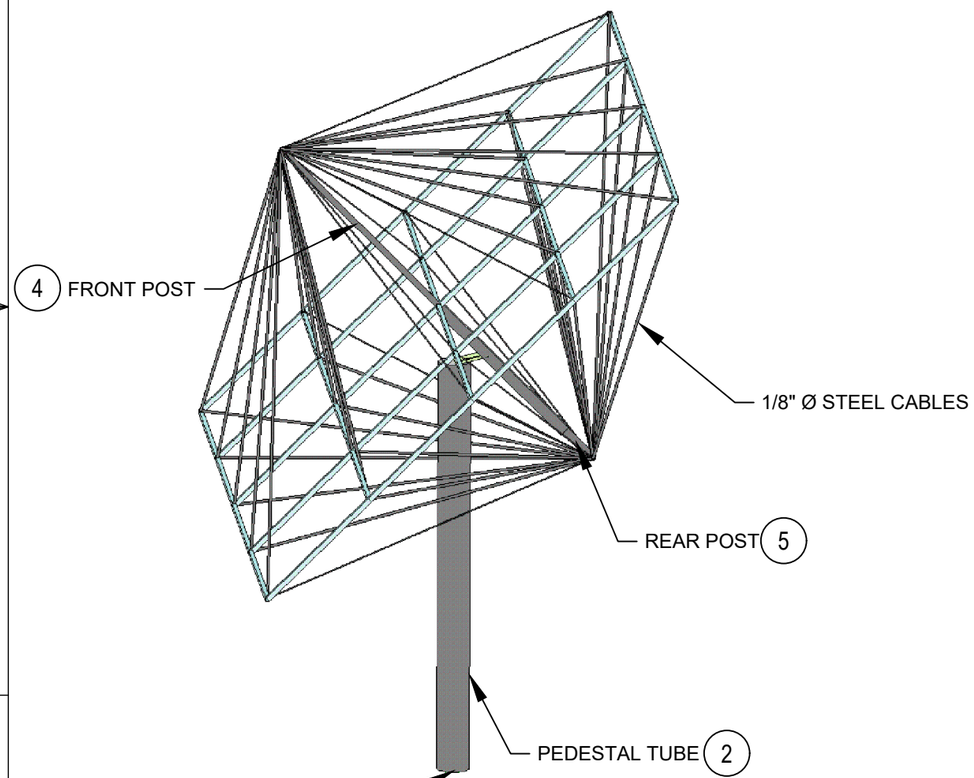
10-15-2020

STATE OF NEW HAMPSHIRE – PROFESSIONAL ENGINEER – NABIL M TAHA No. 14293 LICENSED

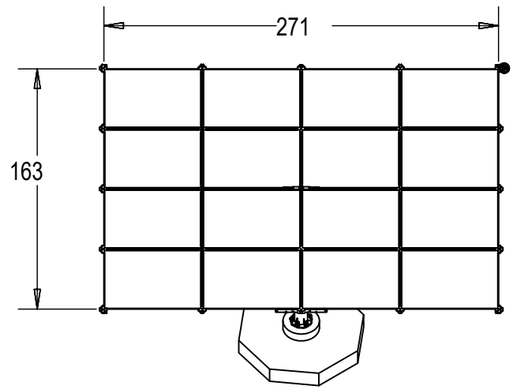
Exp: 07-31-2021

PSE Consulting Engineers, Inc.
Klamath Falls Office
250 Main Street
Klamath Falls, Oregon 97601
Phone: (541) 850-6300
Fax: (541) 850-6233
info@structure1.com
www.structure1.com

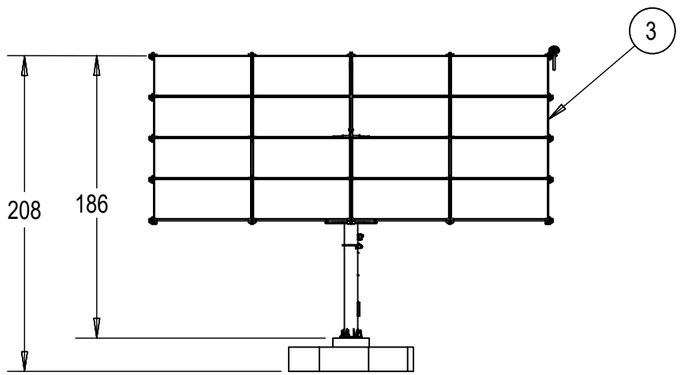
PSEI, PROJECT #:
Solaflect Energy 220-1



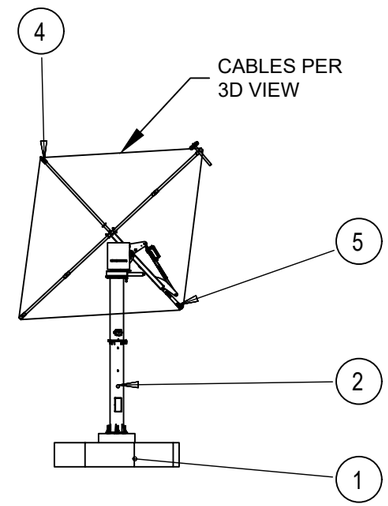
1 3D VIEW
NTS



2 3D VIEW 2
NTS



3 ELEVATION
NTS



4 SIDE VIEW
NTS

REV	DATE	DESCRIPTION

SOLAFLECT ENERGY
Norwich, VT 05055 (802) 649-3700

DIMENSIONS IN INCHES
TOLERANCES:
ONE PLACE DEC. +/- 0.100
TWO PLACE DEC. +/- 0.015
THREE PLACE DEC. +/- 0.005
ANGULAR +/- 2 deg

TITLE: j
MATERIAL: XXX
FINISH: XXX
DRAWN: NPH
DATE: 2016-06-28
SCALE: X:X
SHEET # OF #
SIZE: B
DRAWING NO.: SF02279.1