

CERTIFICATE NO: \_\_\_\_\_

DATE ISSUED: \_\_\_\_\_

Application to the HISTORIC DISTRICT COMMISSION, Nantucket, Massachusetts, for a

### CERTIFICATE OF APPROPRIATENESS

for structural work.

All blanks must be filled in using BLUE OR BLACK INK (no pencil) or marked N/A.

**NOTE: It is strongly recommended that the applicant be familiar with the HDC guidelines, *Building with Nantucket in Mind*, prior to submittal of application. Please see other side for submittal requirements. Incomplete applications will not be reviewed by the HDC.**

This is a contractual agreement and must be filled out in ink. An application is hereby made for issuance of a Certificate of Appropriateness under Chapter 395 of the Acts and Resolves of Mass., 1970, for proposed work as described herein and on plans, drawings and photographs accompanying this application and made a part hereof by reference.

The certificate is valid for three years from date of issuance. No structure may differ from the approved application. Violation may impede issuance of Certificate of Occupancy.

#### PROPERTY DESCRIPTION

TAX MAP N°: 69 PARCEL N°: 29.1 295

Street & Number of Proposed Work: 5 SOUTH ISLAND RD

Owner of record: J. BRUCE MACGREGOR - ACK STORAGE

Mailing Address: 270 COMMUNICATIONS WAY UNIT 5  
HYANNIS, MA 02601

Contact Phone #: \_\_\_\_\_ E-mail: \_\_\_\_\_

#### AGENT INFORMATION (if applicable)

Name: MY GENERATION ENERGY

Mailing Address: 1471 IYANNOUGH RD STE 1  
HYANNIS, MA 02601

Contact Phone #: 508-694-6884 E-mail: JAMIE@MYGENERATIONENERGY.COM

#### FOR OFFICE USE ONLY

Date application received: \_\_\_\_\_ Fee Paid: \$ \_\_\_\_\_

Must be acted on by: \_\_\_\_\_

Extended to: \_\_\_\_\_

Approved: \_\_\_\_\_ Disapproved: \_\_\_\_\_

Chairman: \_\_\_\_\_

Member: \_\_\_\_\_

Member: \_\_\_\_\_

Member: \_\_\_\_\_

Member: \_\_\_\_\_

Notes - Comments - Restrictions - Conditions

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

#### DESCRIPTION OF WORK TO BE PERFORMED

See reverse for required documentation.

New Dwelling  Addition  Garage  Driveway/Apron  Commercial  Historical Renovation  Deck/Patio  Steps  Shed

Color Change  Fence  Gate  Hardscaping  Move Building  Demolition  Revisions to previous Cert. No. \_\_\_\_\_

Pool (Zoning District \_\_\_\_\_)  Roof  Other SOLAR PANELS

Size of Structure or Addition: Length: \_\_\_\_\_ Sq. Footage 1st floor: \_\_\_\_\_ Decks/Patio: Size: \_\_\_\_\_  1st floor  2nd floor

Width: \_\_\_\_\_ Sq. footage 2nd floor: \_\_\_\_\_ Size: \_\_\_\_\_  1st floor  2nd floor

Sq. footage 3rd floor: \_\_\_\_\_

Difference between existing grade and proposed finish grade: North \_\_\_\_\_ South \_\_\_\_\_ East \_\_\_\_\_ West \_\_\_\_\_

Height of ridge above final finish grade: North \_\_\_\_\_ South \_\_\_\_\_ East \_\_\_\_\_ West \_\_\_\_\_

#### Additional Remarks

Historic Name: \_\_\_\_\_

Original Date: \_\_\_\_\_

Original Builder: \_\_\_\_\_

Is there an HDC survey form for this building attached?  Yes  N/A

#### REVISIONS\*

1. East Elevation
2. South Elevation BLACK SOLAR PANELS ON METAL 2/12 PITCH ROOF (330)
3. West Elevation
4. North Elevation

\*Cloud on drawings and submit photographs of existing elevations.

#### DETAIL OF WORK TO BE PERFORMED

Foundation: Height Exposed \_\_\_\_\_  Block  Block Parged  Brick (type) \_\_\_\_\_  Poured Concrete  Piers

Masonry Chimney:  Block Parged  Brick (type) \_\_\_\_\_  Other \_\_\_\_\_

Roof Pitch: Main Mass \_\_\_\_\_/12 Secondary Mass \_\_\_\_\_/12 Dormer \_\_\_\_\_/12 Other \_\_\_\_\_

Roofing material:  Asphalt:  3-Tab  Architectural

Wood (Type: Red Cedar, White Cedar, Shakes, etc.) \_\_\_\_\_

Skylights (flat only): Manufacturer \_\_\_\_\_ Rough Opening \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

Manufacturer \_\_\_\_\_ Rough Opening \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

Gutters:  Wood  Aluminum  Copper  Leaders (material) \_\_\_\_\_

Leaders (material and size): \_\_\_\_\_

Sidewall:  White cedar shingles  Clapboard (exposure: \_\_\_\_\_ inches) Front  Side

Other \_\_\_\_\_

Trim: A. Wood  Pine  Redwood  Cedar  Other \_\_\_\_\_

B. Treatment  Paint  Natural to weather  Other \_\_\_\_\_

C. Dimensions: Fascia \_\_\_\_\_ Rake \_\_\_\_\_ Soffit (Overhang) \_\_\_\_\_ Corner boards \_\_\_\_\_ Frieze \_\_\_\_\_

Window Casing \_\_\_\_\_ Door Frame \_\_\_\_\_ Columns/Posts: Round \_\_\_\_\_ Square \_\_\_\_\_

Windows\*:  Double Hung  Casement  All Wood  Other \_\_\_\_\_

True Divided Lights (muntins), single pane  SDL's (Simulated Divided Lights) Manufacturer \_\_\_\_\_

Doors\* (type and material):  TDL  SDL Front \_\_\_\_\_ Rear \_\_\_\_\_ Side \_\_\_\_\_

Garage Door(s): Type \_\_\_\_\_ Material \_\_\_\_\_

Hardscape materials: Driveways \_\_\_\_\_ Walkways \_\_\_\_\_ Walls \_\_\_\_\_

Fence: Height: \_\_\_\_\_

Type: \_\_\_\_\_

Length: \_\_\_\_\_

*change*

*MS*

\* Note: Complete door and window schedules are required.

#### COLORS

Sidewall \_\_\_\_\_ Clapboard (if applicable) \_\_\_\_\_ Roof METAL

Trim \_\_\_\_\_ Sash \_\_\_\_\_ Doors \_\_\_\_\_

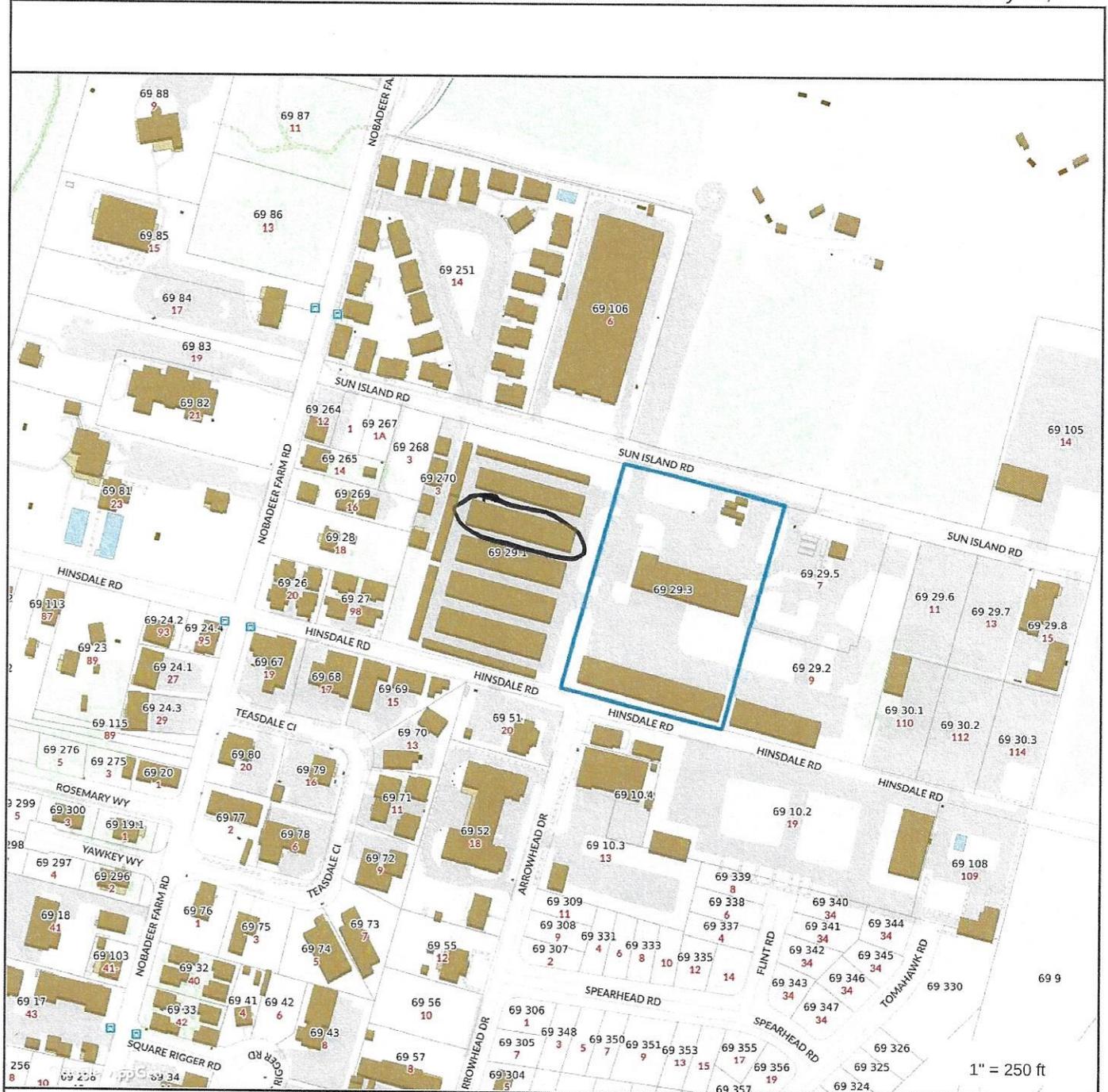
Deck \_\_\_\_\_ Foundation \_\_\_\_\_ Fence \_\_\_\_\_ Shutters \_\_\_\_\_

\* Attach manufacturer's color samples if color is not from HDC approval list.

I hereby authorize the agent named above to act on my behalf to make changes in the specifications or the plans contained in this application in order to bring the application into compliance with the HDC guidelines. I hereby agree to abide by and comply with the terms and conditions of this application. I hereby agree that the submission of any revisions to this application will initiate a new sixty-day review period.

Date 11/16/20 Signature of owner of record \_\_\_\_\_

Signed under penalties of perjury



Property Information

Property ID 69 29.3  
 Location 5A SUN ISLAND RD  
 Owner J BRUCE MACGREGOR



MAP FOR REFERENCE ONLY  
NOT A LEGAL DOCUMENT

Town and County of Nantucket, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 11/13/2018  
Data updated 11/19/2018



Property Information

Property ID 69 29.1  
 Location 5 SUN ISLAND RD  
 Owner MACGREGOR J BRUCE TR

**B**  
 295



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Geometry updated 11/13/2018  
 Data updated 11/19/2018

**5 SUN ISLAND RD**



**Property Information**

Property ID 69 29.1  
 Location 5 SUN ISLAND RD  
 Owner MACGREGOR J BRUCE TR



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Geometry updated 11/13/2018  
 Data updated 11/19/2018

5 SUN ISLAND ROAD – STRUCTURE “B”



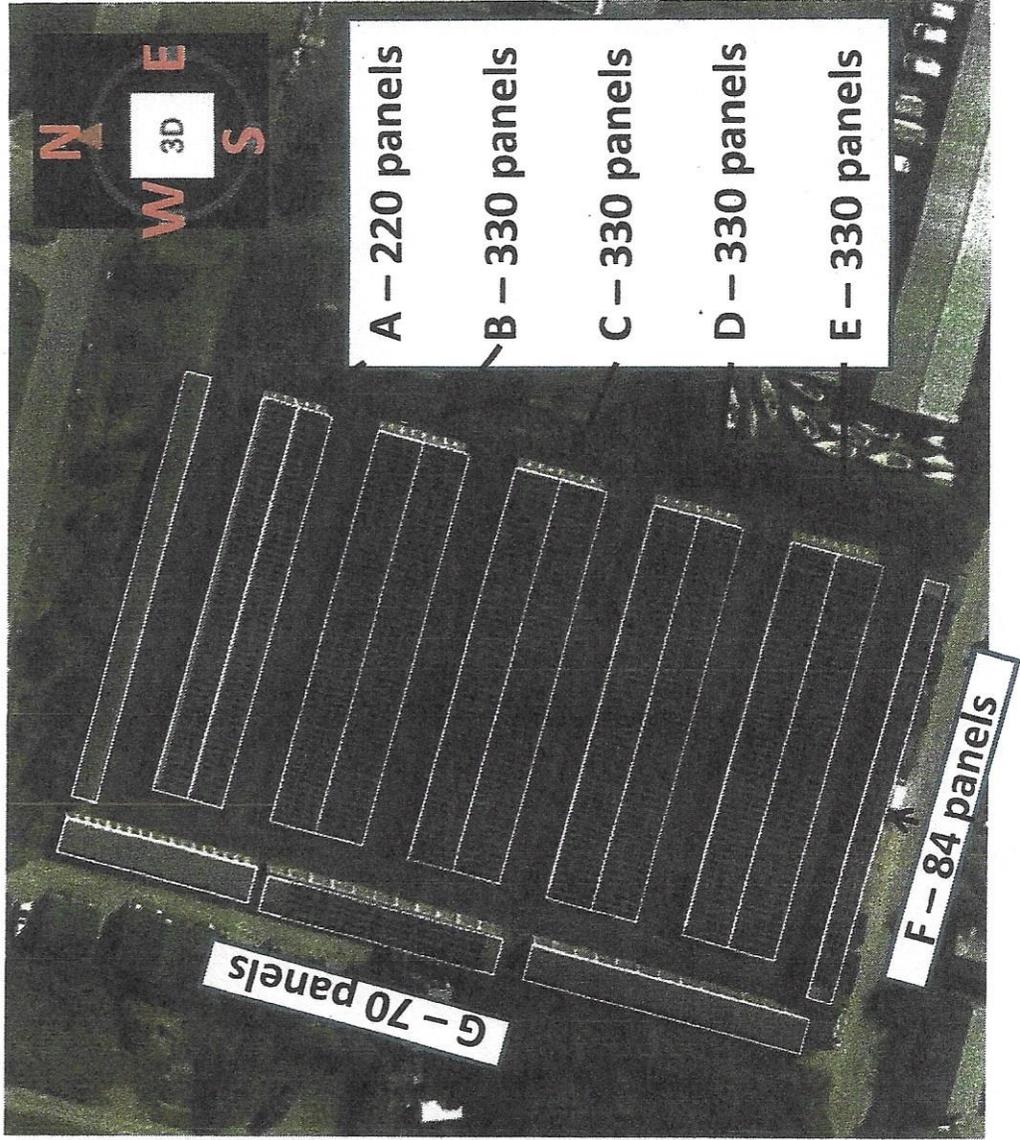
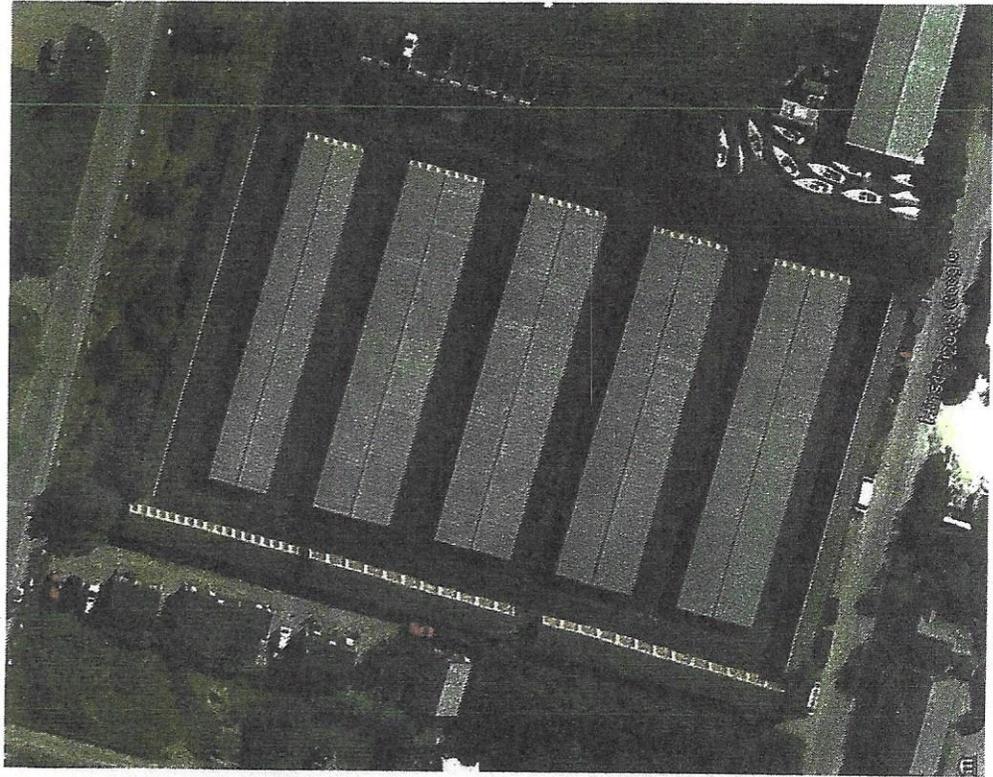
SOLAR PANEL MOCK-UP



Nantucket Sun Island Self Storage  
5 Sun Island Rd, Nantucket

FEB 08 2020

Proposed location of 1,694 black solar panels



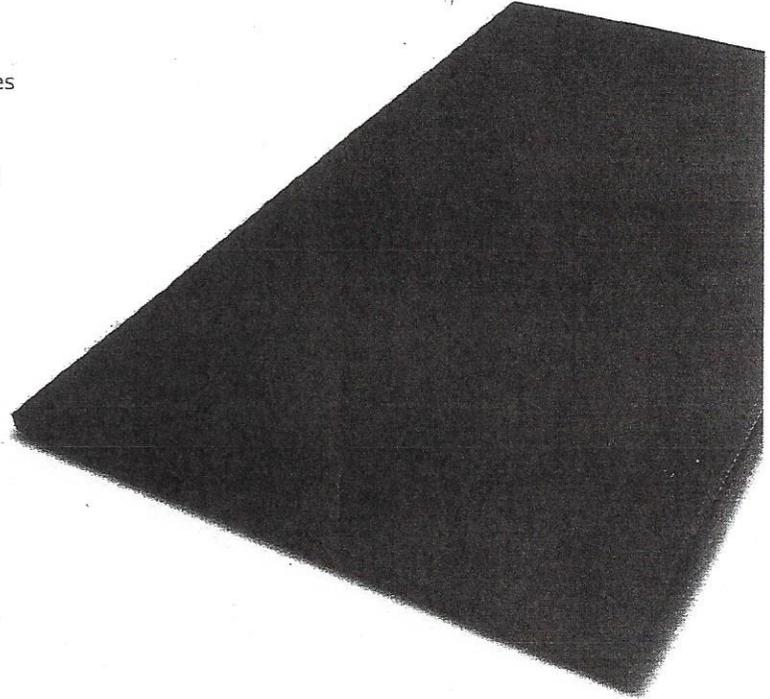
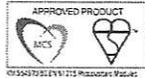
# LG NeON<sup>®</sup>R Prime

LG350Q1K-V5 | LG355Q1K-V5 | LG360Q1K-V5

60

## 350W | 355W | 360W

LG Solar's NeON<sup>®</sup>R is a powerful solar module that provides premium performance. The NeON<sup>®</sup>R incorporates a cell structure without electrodes on the front to maximize light utilization and enhance reliability. Providing added value for the customer beyond efficiency, this module features an enhanced warranty, outstanding durability, solid performance in real-world conditions and aesthetic design suitable for roofs.



## Features



### Roof Aesthetics

LG NeON<sup>®</sup>R has been designed with aesthetics in mind: the lack of any electrodes on the front creates an improved, modern aesthetic.



### Enhanced Product Warranty

LG has extended the warranty of the NeON<sup>®</sup>R to 25 years including labor, which is top level in the industry.



### Enhanced Performance Warranty

LG NeON<sup>®</sup>R has an enhanced performance warranty. After 25 years, LG NeON<sup>®</sup>R is guaranteed at least 90.8% of initial performance.



### More Generation Per Square Meter

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

When you go solar, ask for the brand you can trust: LG Solar

## About LG Electronics

LG Electronics is a global leader in electronic products in the clean energy markets by offering solar PV panels and energy storage systems. 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<sup>®</sup> series to the market, which is now available in 32 countries. The NeON<sup>®</sup> (previous MonoX<sup>®</sup> NeON), NeON<sup>®</sup>2, NeON<sup>®</sup>2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG's leadership and innovation in the solar industry.

# LG Solar

# LG NeON<sup>®</sup>R Prime

LG350Q1K-V5 | LG355Q1K-V5 | LG360Q1K-V5

Preliminary

## General Data

Cell Properties (Material/Type)	Monocrystalline/N-type
Cell Maker	LG
Cell Configuration	60 Cells (6 x 10)
Module Dimensions (L x W x H)	1,700mm x 1,016mm x 40mm
Weight	18.0 kg
Glass (Thickness/Material)	2.8mm/Tempered Glass with AR Coating
Backsheet (Color)	Black
Frame (Material)	Anodized Aluminium
Junction Box (Protection Degree)	IP 68 with 3 Bypass Diodes
Cables (Length)	1,000mm x 2EA
Connector (Type/Maker)	MC 4/MC

## Certifications and Warranty

Certifications	IEC 61215-1/-1-1/2:2016, IEC 61730-1/-2:2016 UL 1703 ISO 9001, ISO 14001, ISO 50001 OHSAS 18001
Salt Mist Corrosion Test	IEC 61701:2012 Severity 6
Ammonia Corrosion Test	IEC 62716:2013
Module Fire Performance	Type 2
Fire Rating	Class C (UL 790)
Product Warranty	25 Years
Output Warranty of Pmax	Linear Warranty*

Improved: 1st year 98%, from 2-24th year 0.3%/year down, after 25th year: 90.8%

## Temperature Characteristics

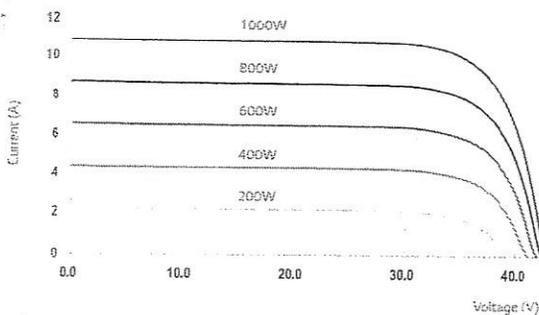
NMOT*	[ °C ]	44 ± 3
Pmax	[%/°C]	-0.30
Voc	[%/°C]	-0.24
Isc	[%/°C]	0.037

\* NMOT (Nominal Module Operating Temperature) Irradiance 800 W/m<sup>2</sup>, Ambient temperature 20 °C, Wind speed 1 m/s, Spectrum AM 1.5

## Electrical Properties (NMOT)

Model		LG350Q1K-V5	LG355Q1K-V5	LG360Q1K-V5
Maximum Power (Pmax)	[W]	264	267	271
MPP Voltage (Vmpp)	[V]	36.1	36.3	36.6
MPP Current (Impp)	[A]	7.3	7.36	7.41
Open Circuit Voltage (Voc)	[V]	40.4	40.6	40.8
Short Circuit Current (Isc)	[A]	8.37	8.41	8.46

## I-V Curves



## Electrical Properties (STC\*)

Model		LG350Q1K-V5	LG355Q1K-V5	LG360Q1K-V5
Maximum Power (Pmax)	[W]	350	355	360
MPP Voltage (Vmpp)	[V]	36.2	36.4	36.7
MPP Current (Impp)	[A]	9.68	9.76	9.82
Open Circuit Voltage (Voc)	[V]	42.9	43.1	43.3
Short Circuit Current (Isc)	[A]	10.39	10.44	10.50
Module Efficiency	[%]	20.3	20.6	20.8
Power Tolerance	[%]		0 - +3	

\* STC (Standard Test Condition): Irradiance 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM 1.5  
Measure Tolerance: ± 3%

## Operating Conditions

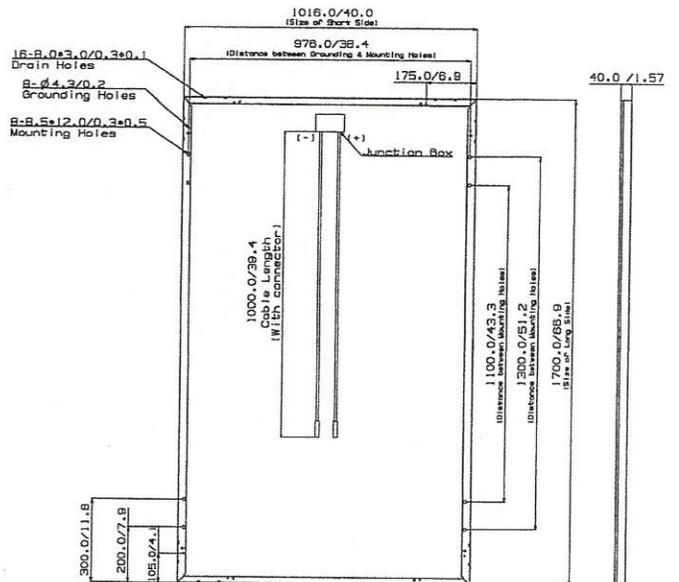
Operating Temperature	[°C]	-40 - +90
Maximum System Voltage	[V]	1,000
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load (Front)	[Pa/psf]	5,400/113
Mechanical Test Load (Rear)	[Pa/psf]	4,000/84

\* Test Load = Design x Safety Factor (1.5)

## 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]	1,750 x 1,120 x 1,221
Packaging Box Gross Weight	[kg]	473

## Dimensions (mm/inch)



LG Electronics Inc.  
Solar Business Division  
2000 Millbrook Drive  
Lincolnshire, IL 60069  
www.lg-solar.com

Product specifications are subject to change without notice.  
LG350-360Q1K-V5.pdf

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5, 5A, 9 SUN ISLAND ROAD

SOLAR PANELS ON MULTIPLE STRUCTURES



**LINER BUILDING ON THE RIGHT SHEILDS THE 5 STRUCTURES FROM SUN ISLAND ROAD AND IS TALLER THAN THE FIVE STORAGE BUILDINGS WITH SOLAR PANELS**

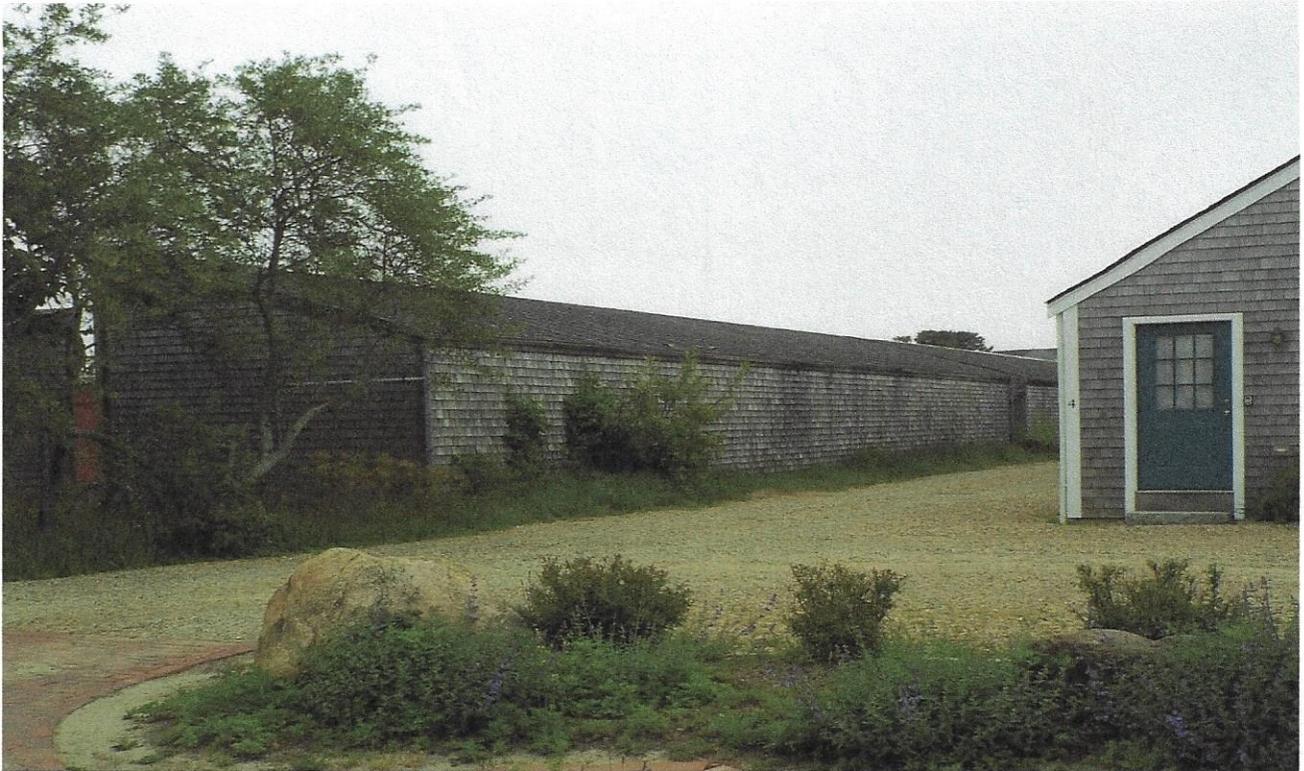


**A SAMPLE SOLAR PANEL IS VISIBLE ON THE TOP OF BUILDING ON THE LEFT**





**VIEW FROM THE WEST SIDE FROM SUN ISLAND ROAD**



**LOW PITCH OF THE STORAGE BUILDINGS MITIGATES THE VISIBILITY OF THE PANELS**



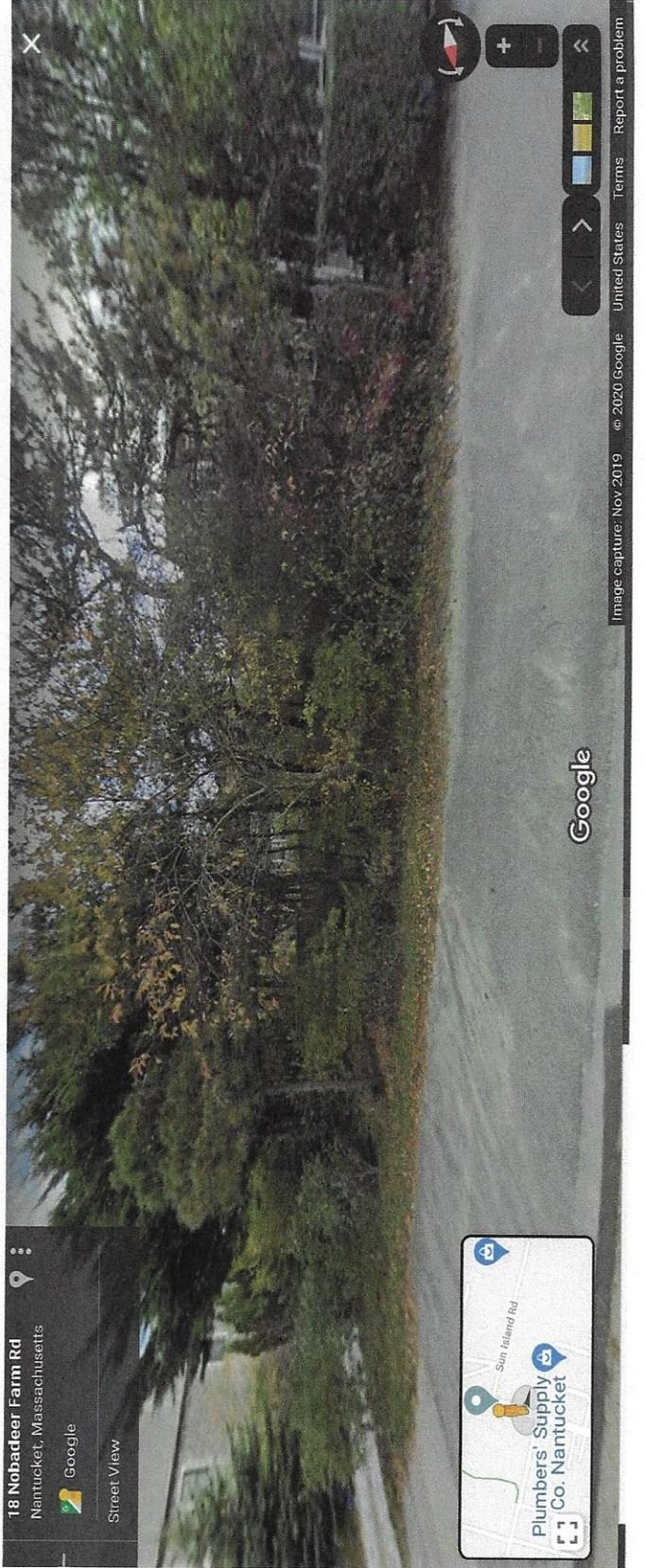
CLOSE UP OF THE PANEL



**VIEW FROM HINSDALE ROAD ON THE SOUTH – LINER BUILDING WILL NOT HAVE PANELS**



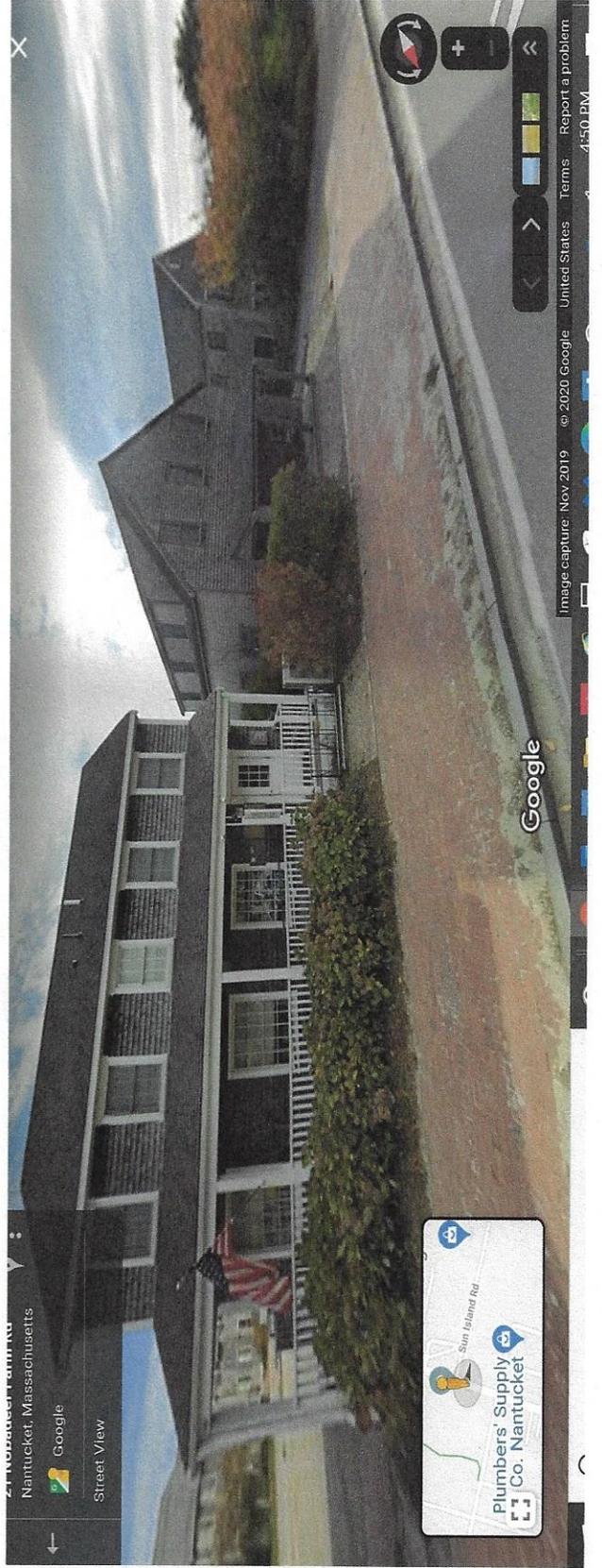
VIEW FROM NOBADEER FARM ROAD



**16 NOBADEER FARM ROAD**



**12 & 14 NOBADEER FARM ROAD**



**FROM NOBADEER FARM ROAD & SUN ISLAND ROAD INTERSECTION**



**EXAMPLES OF OTHER SOLAR INSTALLATIONS**

**29 TOMAHAWK ROAD, 37 TOMAHAWK ROAD, TOSCANA BUILDING AT 109 HINSDALE ROAD**

**381 FEET TO TOSCANA/532 FEET TO 37/ 668 TO 29/LESS 800 FT TO ARROWHEAD**



**29 TOMAHAWK – PITCHED METAL ROOF**





**TOSCANA BUILDING ON HINSDALE ROAD – PITCHED GREY ROOF**



**ARROWHEAD ROAD PANELS**



**NANTUCKET ICE FROM FIRST WAY – PANELS ON PITCHED METAL ROOF**





**NANTUCKET ICE FROM SURFSIDE ROAD**



**NANTUCKET ICE FROM BACKUS LANE**

