

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°: 65 PARCEL N°: 79
Street & Number of Proposed Work: 12 Nantucket Lane
Owner of record: Bruce Herman Trustee
Mailing Address: 12 Nantucket Lane
Nantucket, MA 02554
Contact Phone #: 508 226-0380 E-mail: Achbullet@pmi.com

AGENT INFORMATION (if applicable)

Name: Timothy Holmes / Surbind LLC
Mailing Address: Po Box 700
Brewster, MA 02631
Contact Phone #: 508 246 6350 E-mail: tholmes@surbindllc.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 Replace Red Cedar Roof on Porch and install (4) skylight 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: _____ (describe)
Original Builder: _____
Is there an HDC survey form for this building attached? Yes N/A

REVISIONS*

1. East Elevation
2. South Elevation
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 LG "allblack" Rough Opening 3'3" x 5'6" Size 238.5" 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 _____

* Note: Complete door and window schedules are required. Skylight Spec sheet attached

COLORS

Sidewall _____ Clapboard (if applicable) _____ Roof _____
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: 01.07.2020

Signature of owner of record: Gander D. ...

Signed under penalty of perjury



300 Cranberry Highway
Orleans, MA 02653
508-246-6350
tholmes@sunwindllc.com

Nantucket Historic District Commission
Certificate of Appropriateness Application
Proposed Solar System

Client: Bruce Herman Trustee
C/O Sondra Rudofsky
12 Nanahumacke Lane
Nantucket, MA 02554

Assessors Map Number: 65
Lot Number: 79

Property ID: 185623

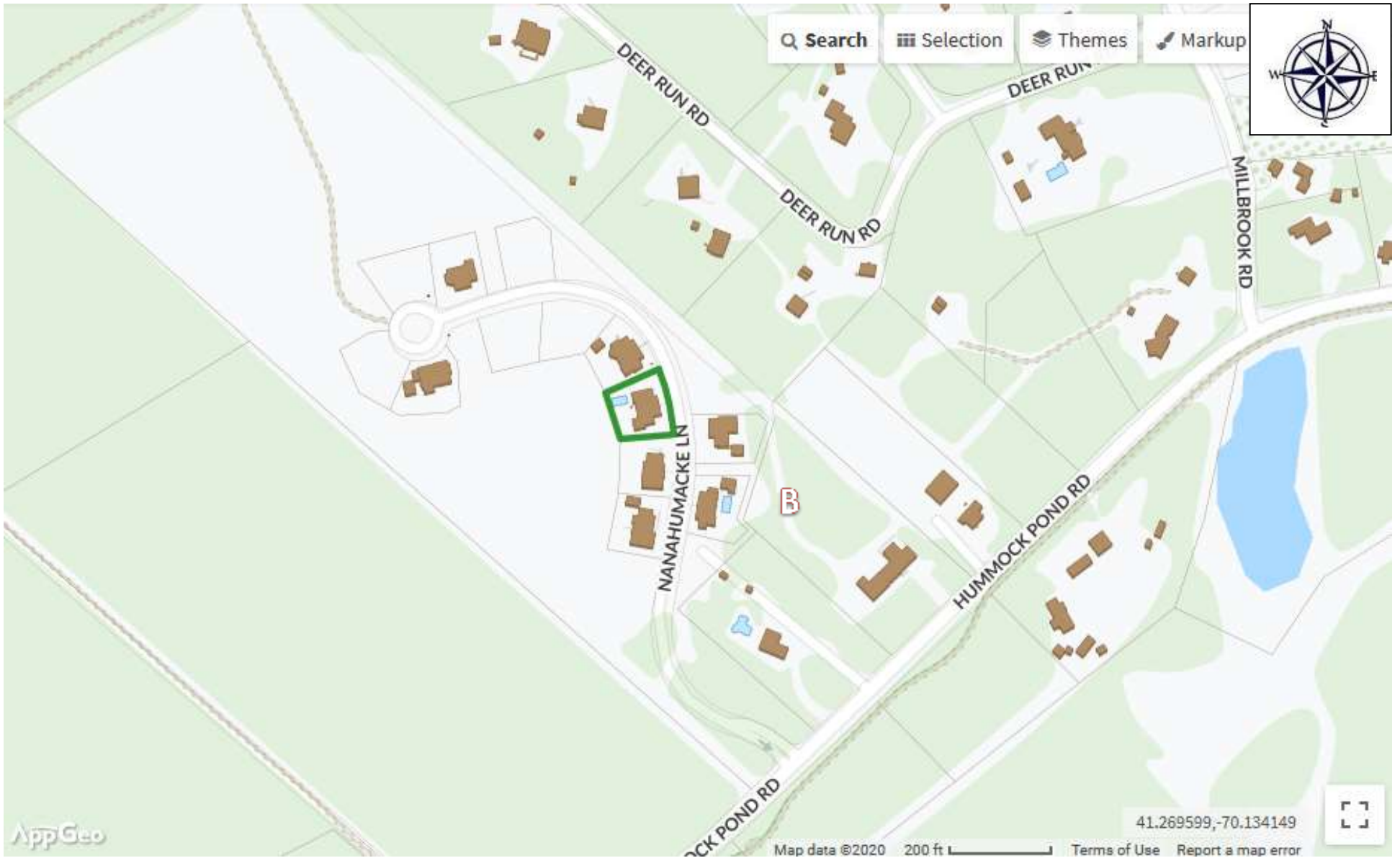
Year Built: 2009

Use: 1010 Single Family M01

Zone: LUG2

Property Size: .29 acres

Locus Map



12 Nanahumacke Lane Nantucket



Front Elevation (East Side)



Rear Elevation (West Side)

Mechanical Properties

Cells	6 x 10
Cell Vendor	LG
Cell Type	Monocrystalline / N-type
Cell Dimensions	161.7 x 161.7 mm / 6 inches
# of Busbar	12 (Multi Wire Busbar)
Dimensions (L x W x H)	1686 x 1016 x 40 mm 66.38 x 40 x 1.57 inch
Front Load	6000Pa
Rear Load	5400Pa
Weight	18 kg
Connector Type	MC4
Junction Box	IP68 with 3 Bypass Diodes
Cables	1000mm x 2 ea
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminium

Certifications and Warranty

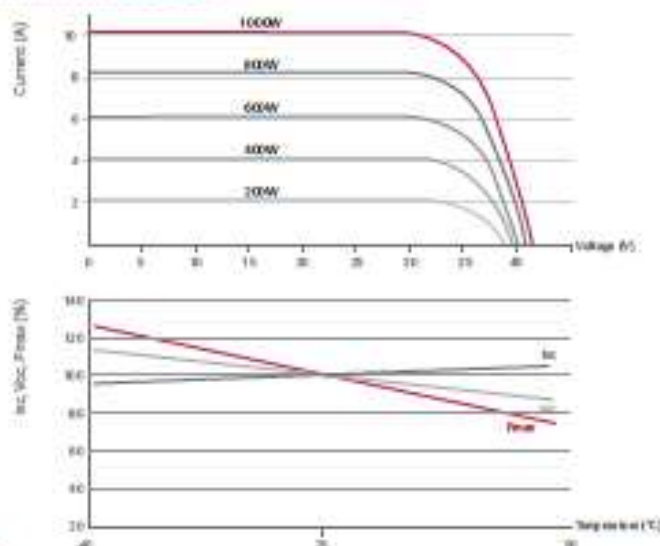
Certifications	IEC 61215, IEC 61730-1/-2 UL 1703 IEC 61701 (Salt mist corrosion test) IEC 62716 (Ammonia corrosion test) ISO 9001
Module Fire Performance (USA)	Type 2
Fire Rating (CANADA)	Class C
Product Warranty	12 years
Output Warranty of Pmax	Linear warranty**

** 1) 1st year: 96%, 2) After 1st year: 0.35% annual degradation, 3) 25 years: 84.8%

Temperature Characteristics

NOCT	45 ± 3 °C
Pmpp	-0.37%/°C
Voc	-0.27%/°C
Isc	0.03 %/°C

Characteristic Curves



Electrical Properties (STC *)

Module	LG320N1K-A5
Maximum Power (Pmax)	320
MPP Voltage (Vmpp)	33.3
MPP Current (Impp)	9.62
Open Circuit Voltage (Voc)	40.8
Short Circuit Current (Isc)	10.19
Module Efficiency	18.7
Operating Temperature	-40 ~ +50
Maximum System Voltage	1,000
Maximum Series Fuse Rating	20
Power Tolerance (%)	0 ~ +3

* STC (Standard Test Condition): Irradiance 1,000 W/m², Ambient Temperature 25 °C, AM 1.5

** The maximum power output is measured and determined by LG Electronics at its sole and absolute discretion.

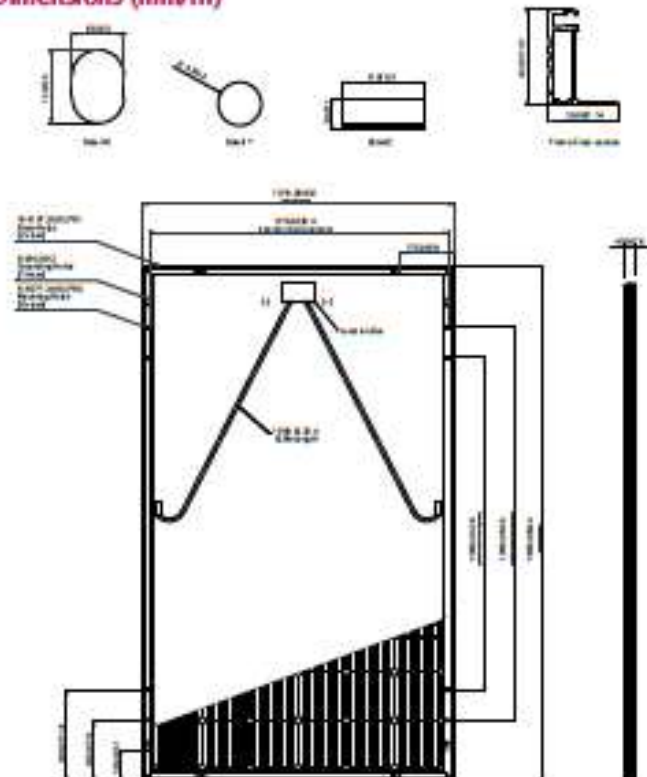
** The typical change in module efficiency at 200 W/m² in relation to 1000 W/m² is -2.0%.

Electrical Properties (NOCT*)

Module	LG320N1K-A5
Maximum Power (Pmax)	236
MPP Voltage (Vmpp)	30.8
MPP Current (Impp)	7.67
Open Circuit Voltage (Voc)	38.0
Short Circuit Current (Isc)	8.20

* NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², ambient temperature 20 °C, wind speed 1m/s

Dimensions (mm/in)



North America Solar Business Team
LG Electronics U.S.A., Inc.
1000 Sylvan Ave, Englewood Cliffs, NJ 07632

Contact: lgasolar@lge.com
www.lgsolar.usa.com

Product specifications are subject to change without notice.

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01/01/2017

Innovation for a Better Life





Left side (South Elevation)



Right Side (North Elevation)

Satellite Image / Proposed solar panel layout



Black LG solar panels to be installed on (3) rear facing dormers



LG NeON² Black

LG320N1K-A5

60 cell

LG's new module, LG NeON², adopts Cello technology. Cello technology replaces 3 busbars with 12 thin wires to enhance power output and reliability. LG NeON² 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.



Enhanced Performance Warranty

LG NeON² Black has an enhanced performance warranty. The annual degradation has fallen from -0.6%/yr to -0.55%/yr. Even after 25 years, the cell guarantees 1.2% more output than the previous LG NeON² Black modules.



Aesthetic Roof

LG NeON² Black has been designed with aesthetics in mind; thinner wires that appear all black at a distance. The product may help increase the value of a property with its modern design.



Better Performance on a Sunny Day

LG NeON² Black now performs better on sunny days thanks to its improved temperature coefficient.



High Power Output

Compared with previous models, the LG NeON² Black has been designed to significantly enhance its output efficiency, thereby making it efficient even in limited space.



Outstanding Durability

With its newly reinforced frame design, LG has extended the warranty of the LG NeON² Black for an additional 2 years. Additionally, LG NeON² Black can endure a front load up to 6000 Pa, and a rear load up to 5400 Pa.



Double-Sided Cell Structure

The rear of the cell used in LG NeON² Black will contribute generation, just like the front; the light beam reflected from the rear of the module is reabsorbed to generate a great amount of additional power.

About LG Electronics

LG Electronics is a global player who has been committed to expanding its capacity based on solar energy business as its future growth engine. We embarked on a solar energy source research program in 1985, supported by LG Group's rich experience in semi-conductor, LCD, chemistry, and materials industry. We successfully released the first Mono X² series to the market in 2010, which were exported to 32 countries in the following 2 years; thereafter in 2013, LG NeON² (previously known as Mono X² NeON) won "Intersolar Award", which proved LG is the leader of innovation in the industry.