

# AGENDA

## TOLLAND GREEN HISTORIC DISTRICT COMMISSION

Wednesday, November 16, 2022 at 7:00 p.m.

### REMOTE MEETING

#### Public Hearings

1. Call to Order
2. Roll Call
3. Reading of Public Notices as appearing in Journal Inquirer
4. Consideration of Application for a COA at 675 Tolland Stage Road for roof-mounted solar panels.
5. Neighbor comments, both for and against (**written testimony to be read into the record**)
6. Close of Public Hearing
7. Consideration of Application for a COA at 89 Tolland Green to remove two rotted garage windows and cover exterior with like siding
8. Neighbor comments, both for and against
9. Close of Public Hearing

#### Regular Meeting

10. Call to Order
11. Consideration of COA for 675 Tolland Stage Road by Commission, and vote thereon
12. Consideration of COA for 89 Tolland Green by Commission, and vote thereon
13. New Business
  - 13.1 Discussion of Historic District Commission's 2023 meeting schedule
14. Miscellaneous
15. Approval of Minutes from Regular Meeting on September 21, 2022
16. Adjournment

#### To View Meeting Materials:

See <https://www.tolland.org/historic-district-commission/pages/remote-meeting-packets-audio-recordings>

#### To Join Zoom Meeting:

<https://us06web.zoom.us/j/86581096992?pwd=OFI6WGgrNUZCK05URjhhM1NkSXFZz09>

**One tap mobile:** +16468769923,,86581096992#,,,,\*11162022#

**Or Call:** +1 646 876 9923 US (New York)

Meeting ID: 865 8109 6992

Passcode: 11162022

# Public Hearing

# Agenda Item 3

**Legal Notice**  
**Tolland Green Historic District Commission**

The Commission will hold a Public Hearing on November 16, 2022 at 7:00pm to consider an application for a Certificate of Appropriateness by Kristopher Farley for solar panels at 675 Tolland Stage Road. This application is on-line at <https://www.tolland.org/historic-district-commission/pages/applications-pending> Only remote participation will be allowed. Instructions to participate will be on the agenda, which will be posted by November 14 at [www.tolland.org](http://www.tolland.org)

To run once in the Journal Inquirer on November 7 & 8, 2022

**Legal Notice**  
**Tolland Green Historic District Commission**

The Commission will hold a Public Hearing on November 16, 2022 at 7:00pm to consider an application for a Certificate of Appropriateness by Theodore Jick for removal of windows on garage and replaced with siding at 89 Tolland Green. This application is on-line at <https://www.tolland.org/historic-district-commission/pages/applications-pending>  
Only remote participation will be allowed. Instructions to participate will be on the agenda, which will be posted by November 14 at [www.tolland.org](http://www.tolland.org)

To run once in the Journal Inquirer on November 7 & 8, 2022

# Agenda Item 4



**TOLLAND GREEN HISTORIC DISTRICT COMMISSION**  
**Application for a Certification of Appropriateness**

**RECEIVED**  
 NOV 01 2022  
 BY: ame

**Property Information**

Property Address: 675 Tollard Stage Rd, Tollard, CT 06084

Property Owner: Kristopher Farley

Phone Number: [REDACTED]

**Applicant Information**

Applicant Name: Kristopher Farley

Applicant Address: 675 Tollard Stage Rd, Tollard, CT 06084

Phone Number: [REDACTED] Email Address: [REDACTED]

**Project Information**

Type of Building: Residential Single Family

Nature and description of work to be done as it affects exterior appearance. Attach appropriate drawing or plans giving the position of the house or structure on the site, ground plan of house with proposed addition, and all pertinent elevations showing size and style of windows, dormers, doors, exterior wall finishes, roofing material, chimneys, vents and ornamentation. (If more space needed, attach sheet to application.)

Install 40 rooftop solar panels / 3 arrays

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**Estimated Start and Completion Dates:**

Start: \_\_\_\_\_ Complete: \_\_\_\_\_

1. Attach a photograph of the existing structure or place to be changed as viewed from the street showing that portion of the structure to be altered, together with a drawing of the proposed alteration or change.
2. Application fee of \$75.00 must accompany application (make checks payable to Town of Tollard).
3. Application form, fee, plans, photograph and drawing must be submitted to Planning & Building Department. Public Hearings will be scheduled within not more than sixty-five days after the filing of an application.

*Certificate of Appropriateness will expire 1 year from date of approval.*

This application form and all accompanying plans and materials are accurate and complete:

Applicant Signature: Kristopher Farley Date: 10/25/2022

Property Owner Signature: Kristopher Farley Date: 10/25/2022

-----OFFICE USE ONLY-----

Received & Fee Paid:	<u>10/31/22</u>	231002340	Hearing Scheduled:	<u>11/10/22</u>
Hearing Advertised:			Action:	
Notice of Action to Applicant:			HDC Due Date:	<u>12/30/22</u>

**SCOPE OF WORK**

- SYSTEM SIZE: 14400W DC, 10000W AC
- MODULES: (40) LONGI GREEN ENERGY TECHNOLOGY CO LTD: LR4-60HPH-360M
- INVERTERS: (1) SOLAREEDGE TECHNOLOGIES: SE10000H-USSN
- RACKING: RL UNIVERSAL, SPEEDSEAL TRACK ON COMP, SEE DETAIL SNR-DC-00436

**GENERAL NOTES**

- ALL WORK SHALL COMPLY WITH 2021 IRC/IBC/IEBC W 2022 CT AMENDMENTS, MUNICIPAL CODE, AND ALL MANUFACTURERS' LISTINGS AND INSTALLATION INSTRUCTIONS.
- PHOTOVOLTAIC SYSTEM WILL COMPLY WITH NEC 2017.
- ELECTRICAL SYSTEM GROUNDING WILL COMPLY WITH NEC 2017.
- PHOTOVOLTAIC SYSTEM IS UNGROUNDED. NO CONDUCTORS ARE SOLIDLY GROUNDED IN THE INVERTER. SYSTEM COMPLIES WITH 690.35.
- MODULES CONFORM TO AND ARE LISTED UNDER UL 1703.
- INVERTER CONFORMS TO AND IS LISTED UNDER UL 1741.
- RACKING CONFORMS TO AND IS LISTED UNDER UL 2703.
- SNAPRACK RACKING SYSTEMS, IN COMBINATION WITH TYPE I, OR TYPE II MODULES, ARE CLASS A FIRE RATED.
- RAPID SHUTDOWN REQUIREMENTS MET WHEN INVERTERS AND ALL CONDUCTORS ARE WITHIN ARRAY BOUNDARIES PER NEC 690.12(1).
- CONSTRUCTION FOREMAN TO PLACE CONDUIT RUN PER 690.31(G).
- ARRAY DC CONDUCTORS ARE SIZED FOR DERATED CURRENT.
- 11.35 AMPS MODULE SHORT CIRCUIT CURRENT.
- 17.73 AMPS DERATED SHORT CIRCUIT CURRENT [690.8 (A) & 690.8 (B)].
- PV INSTALLATION COMPLIES WITH THE NEC 2017 ARTICLE 690.12(B)(2). CONTROLLED CONDUCTORS LOCATED INSIDE THE ARRAY BOUNDARY ARE LIMITED TO 80 VOLTS WITHIN 30 SECOND OF A RAPID SHUTDOWN INITIATION

**LEGEND AND ABBREVIATIONS**

UTILITY METER	
MAIN PANEL	
SUB-PANEL	
PV LOAD CENTER	CHIMNEY
SUNRUN METER	ATTIC VENT
DEDICATED PV METER	FLUSH ATTIC VENT
INVERTER(S)	PVC PIPE VENT
AC DISCONNECT(S)	METAL PIPE VENT
DC DISCONNECT(S)	T-VENT
IQ COMBINER BOX	SATELLITE DISH
	FIRE SETBACKS
	HARDSCAPE
	- PL - PROPERTY LINE

SCALE: NTS

**TABLE OF CONTENTS**

PAGE #	DESCRIPTION
PV-1.0	COVER SHEET
PV-2.0	SITE PLAN
PV-3.0	LAYOUT
PV-3.1	MOUNTING DETAIL
PV-4.0	ELECTRICAL
PV-5.0	SIGNAGE

**VICINITY MAP**



A	AMPERE
AC	ALTERNATING CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AZIM	AZIMUTH
COMP	COMPOSITION
DC	DIRECT CURRENT
(E)	EXISTING
ESS	ENERGY STORAGE SYSTEM
EXT	EXTERIOR
INT	INTERIOR
MAG	MAGNETIC
MSP	MAIN SERVICE PANEL
(N)	NEW
NTS	NOT TO SCALE
OC	ON CENTER
PRE-FAB	PRE-FABRICATED
PSF	POUNDS PER SQUARE FOOT
PV	PHOTOVOLTAIC
RSD	RAPID SHUTDOWN DEVICE
TL	TRANSFORMERLESS
TYP	TYPICAL
V	VOLTS
W	WATTS

REV	NAME	DATE	COMMENTS



ELC. 0204771- E1

712 BROOK STREET, SUITE 106 ROCKY HILL, CT 06067  
PHONE 203-824-0782  
FAX 860-247-1429

CUSTOMER RESIDENCE:  
KRISTOPHER FARLEY  
675 TOLLAND STAGE RD,  
TOLLAND, CT, 06084

TEL. (832) 660-8149

APN:  
TOLL-000021-G000000-000016-000001

PROJECT NUMBER:  
231R-675FARL

DESIGNER: (415) 580-6920 ex3  
DEKKER BOULAY

SHEET  
**COVER SHEET**

REV: A 10/13/2022

PAGE PV-1.0



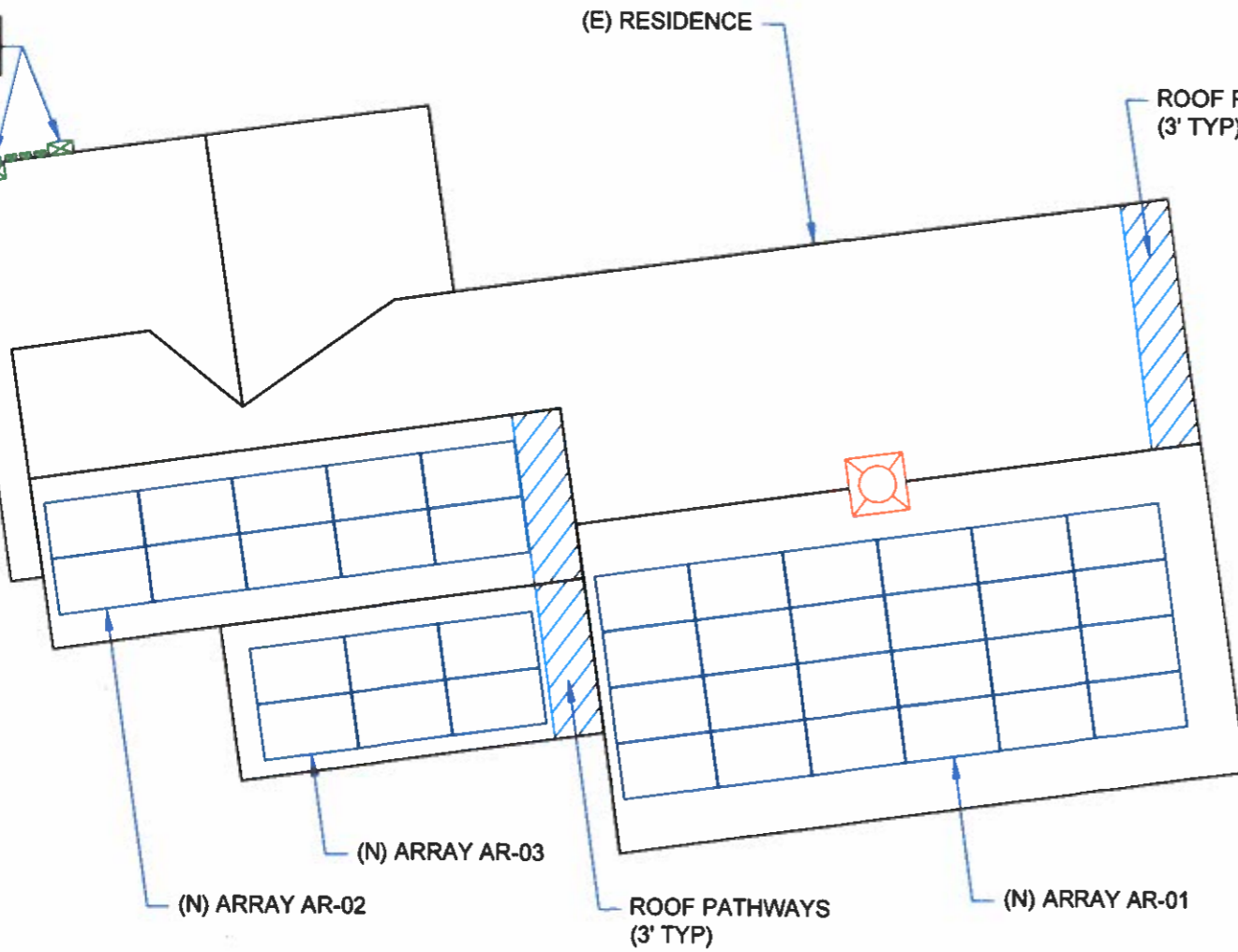
**SITE PLAN - SCALE = 3/32" = 1'-0"**



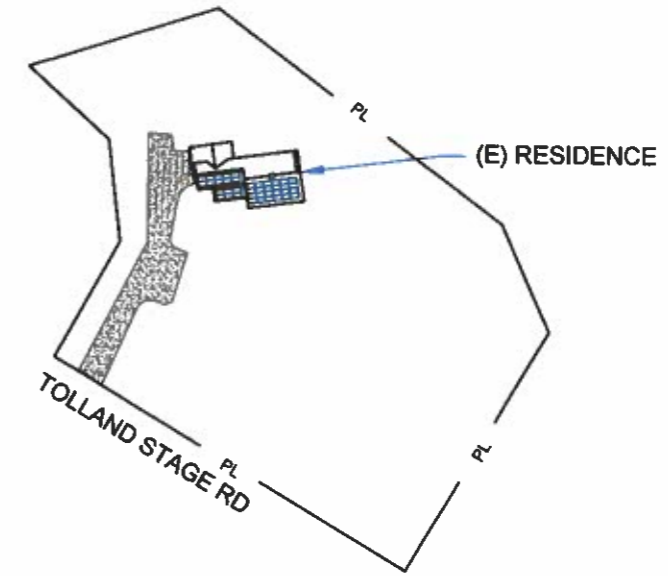
EXTERNAL ELECTRICAL EQUIPMENT



INTERNAL ELECTRICAL EQUIPMENT



**SITE PLAN DETAIL - SCALE = NTS**



	ARRAY PITCH	TRUE AZIM	MAG AZIM	PV ARE/ (SQFT)
AR-01	45°	172°	185°	470.6
AR-02	44°	172°	185°	196.1
AR-03	19°	172°	185°	117.7

**SUNRUN**

ELC. 0204771- E1

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 PHONE 203-824-0782  
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SHEET  
**SITE PLAN**

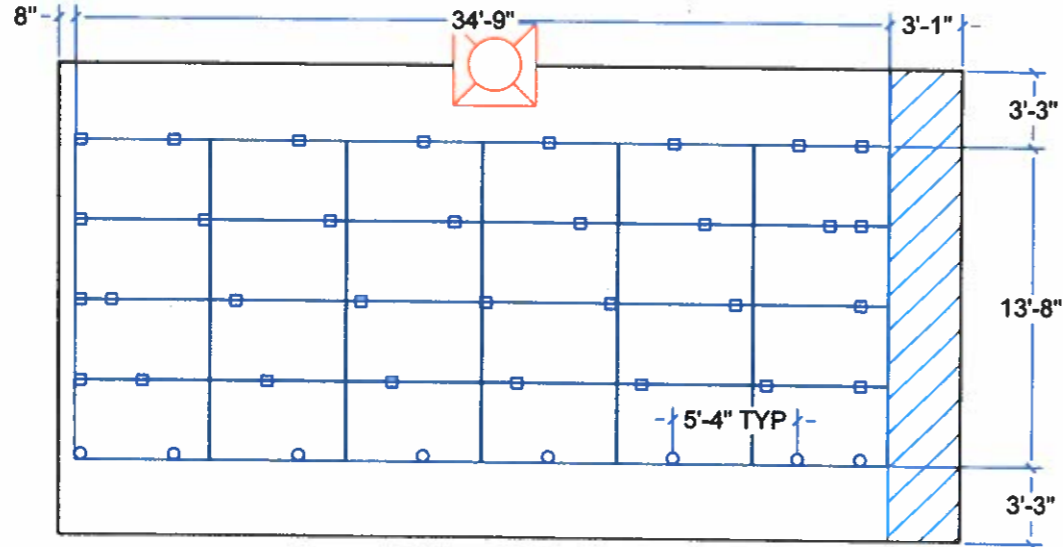
REV: A 10/13/2022

PAGE  
 PV-2.0

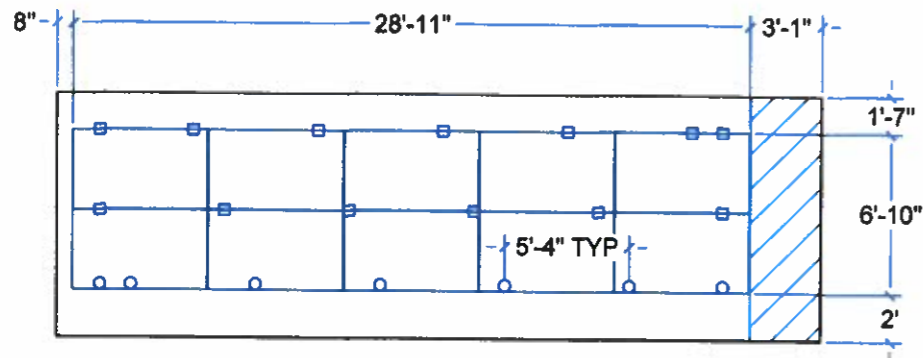
ROOF INFO			FRAMING INFO			ATTACHMENT INFORMATION					
Name	Type	Height	Type	Max Span	OC Spacing	Detail	Max Landscape OC Spacing	Max Landscape Overhang	Max Portrait OC Spacing	Max Portrait Overhang	Configuration
AR-01	COMP SHINGLE - RLU	2-Story	2X8 RAFTERS	13' - 7"	16"	RL UNIVERSAL, SPEEDSEAL TRACK ON COMP, SEE DETAIL SNR-DC-00436	5' - 4"	2' - 1"	4' - 0"	2' - 0"	STAGGERED
AR-02	COMP SHINGLE - RLU	2-Story	2X8 RAFTERS	6' - 9"	16"	RL UNIVERSAL, SPEEDSEAL TRACK ON COMP, SEE DETAIL SNR-DC-00436	5' - 4"	2' - 1"	4' - 0"	2' - 0"	STAGGERED
AR-03	COMP SHINGLE - RLU	1-Story	2X6 RAFTERS	8' - 0"	16"	RL UNIVERSAL, SPEEDSEAL TRACK ON COMP, SEE DETAIL SNR-DC-00436	5' - 4"	2' - 1"	4' - 0"	1' - 8"	STAGGERED

**DESIGN CRITERIA**  
**MAX DISTRIBUTED LOAD:** 3 F  
**SNOW LOAD:** 35 PSF  
**WIND SPEED:** 125 MPH 3-SEC GUST.  
**S.S. LAG SCREW**  
**5/16"x1/4" MIN. EMBEDMENT**  
**STRUCTURAL NOTES**  
 INSTALLERS SHALL NOTIFY ENGINEER OF ANY POTENTIAL STRUCTURAL ISSUES OBSERVED PRIOR TO PROCEEDING W/ INSTALLATION.  
 \* IF ARRAY (EXCLUDING SKIR) IS WITHIN 12" BOUNDARY REGION OF ANY ROOF PLANE EDGES (EXCEPT VALLEYS), THEN ATTACHMENTS NEED TO BE ADDED AND OVERHANG REDUCED WITHIN THE 12" BOUNDARY REGION ONLY AS FOLLOWS:  
 \*\* ALLOWABLE ATTACHMENT SPACING INDICATED ON PLANS TO BE REDUCED BY 50%.  
 \*\* ALLOWABLE OVERHANG INDICATED ON PLANS TO BE 1/5TH OF ALLOWABLE ATTACHMENT SPACING INDICATED ON PLANS.

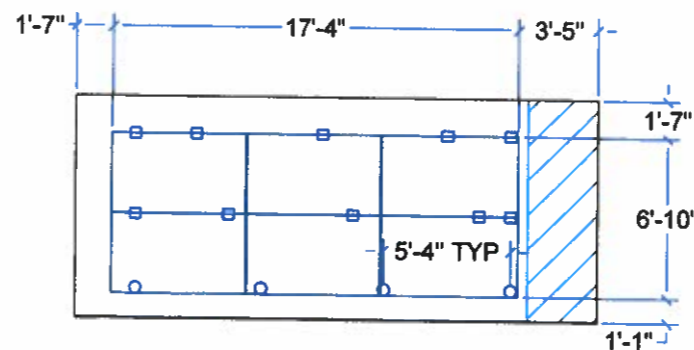
**D1 - AR-01 - SCALE: 1/8" = 1'-0"**  
 AZIM: 172°  
 PITCH: 45°



**D2 - AR-02 - SCALE: 1/8" = 1'-0"**  
 AZIM: 172°  
 PITCH: 44°



**D3 - AR-03 - SCALE: 1/8" = 1'-0"**  
 AZIM: 172°  
 PITCH: 19°



SEE SITE PLAN FOR NORTH ARROW.



**SUNRUN**

ELC. 0204771- E1

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SHEET  
 LAYOUT

REV: A 10/13/202

PAGE  
 PV-3.0



**STREET VIEW 1**



**STREET VIEW 2**

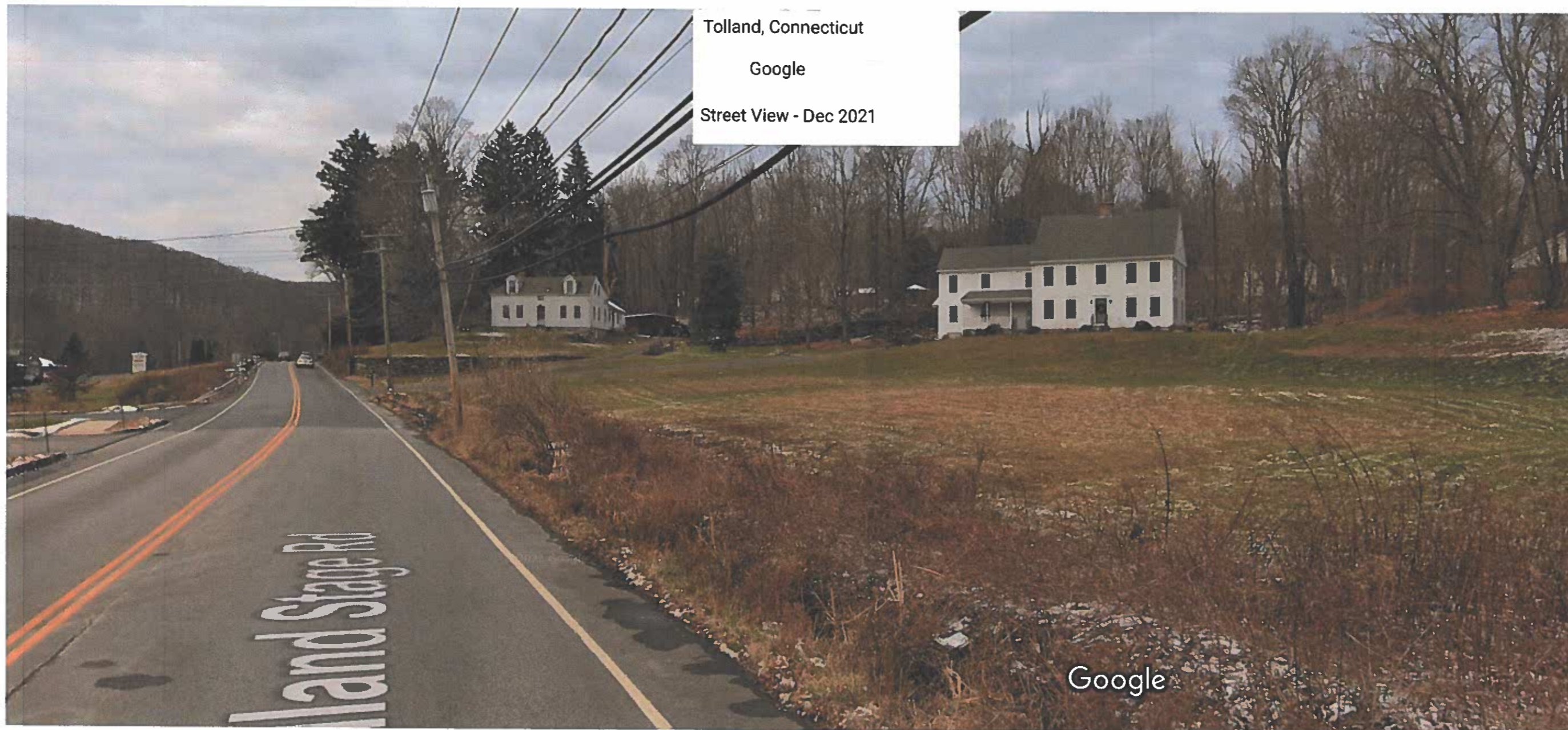


**AERIAL VIEW**

**SUNRUR**

CUSTOMER RESIDENCE:  
KRISTOPHER FARLEY  
675 TOLLAND STAGE RD,  
TOLLAND, CT 06084

PROJECT NUMBER:  
231R-675FARL



Tolland, Connecticut

Google

Street View - Dec 2021

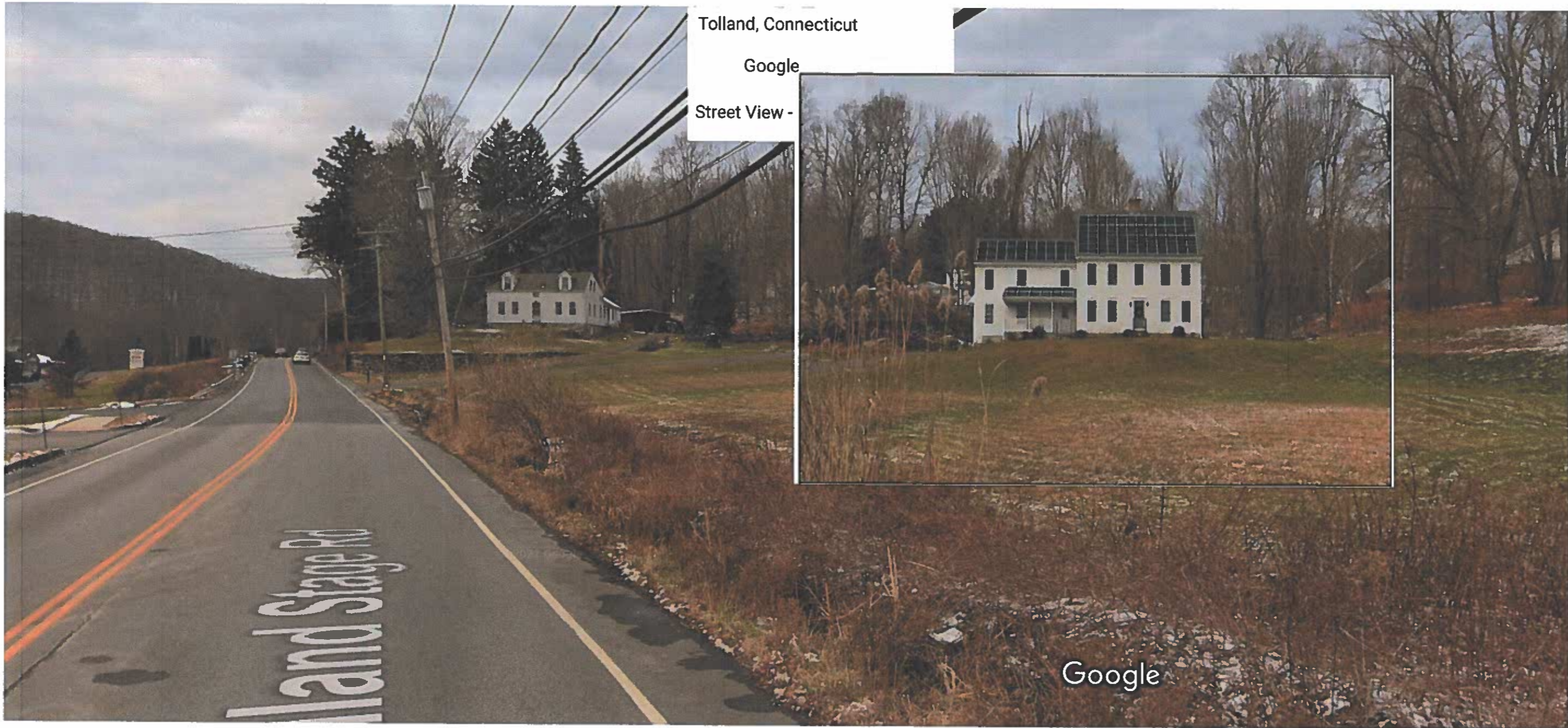
Image capture: Dec 2021 © 2022 Google



675 Tolland Stage Rd

All

Street View & 360°



Tolland, Connecticut  
Google  
Street View -



Google

Image capture: Dec 2021 © 2022 Google



675 Tolland Stage Rd

All

Street View & 360°



Tolland, Connecticut

Google

Street View - Dec 2021

Google

Image capture: Dec 2021 © 2022 Google



675 Tolland Stage Rd

All

Street View & 360°



Image capture: Dec 2021 © 2022 Google

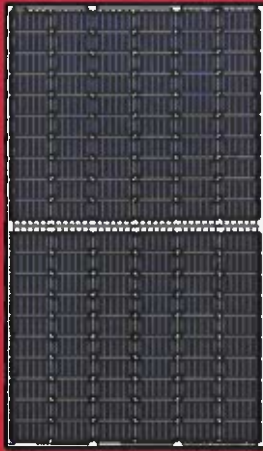


675 Tolland Stage Rd

All

Street View & 360°

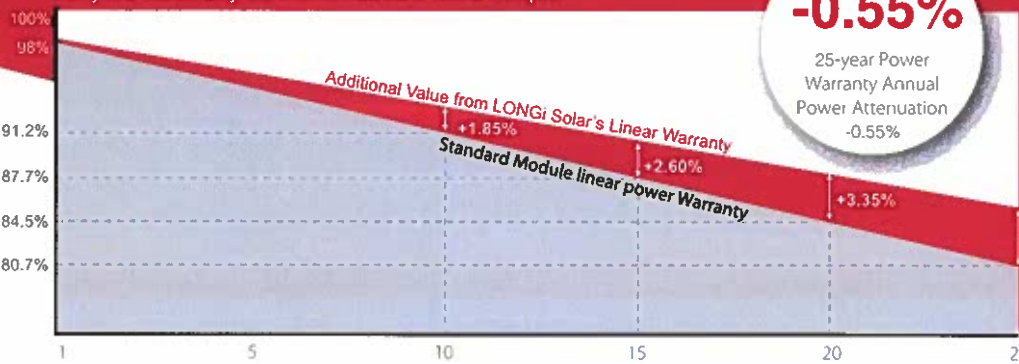
# LR4-60HPH 350~375M



\* Both 6BB & 9BB are available

**High Efficiency**  
**Low LID Mono PERC with**  
**Half-cut Technology**

10-year Warranty for Materials and Processing;  
25-year Warranty for Extra Linear Power Output



### Complete System and Product Certifications

IEC 61215, IEC61730 UL61730

ISO 9001:2008: ISO Quality Management System

ISO 14001: 2004: ISO Environment Management System

TS62941: Guideline for module design qualification and type approval

OHSAS 18001: 2007 Occupational Health and Safety



\* Specifications subject to technical changes and tests. LONGi Solar reserves the right of interpretation.

**Positive power tolerance (0 ~ +5W)** guaranteed

**High module conversion efficiency** (up to 20.6%)

**Slower power degradation** enabled by Low LID Mono PERC technology\* first year <2%, 0.55% year 2-25

**Solid PID resistance** ensured by solar cell process optimization and careful module BOM selection

**Reduced resistive loss** with lower operating current

**Higher energy yield** with lower operating temperature

**Reduced hot spot risk** with optimized electrical design and lower operating current

# LONGi

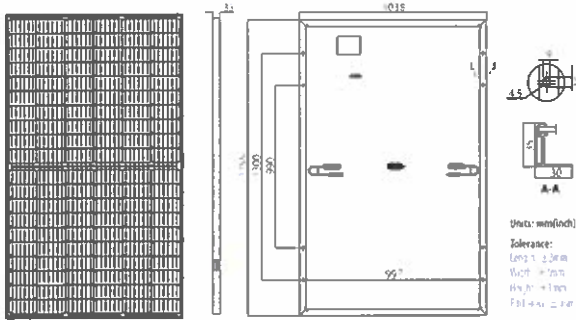
Room 801, Tower 3, Lujiazui Financial Plaza, No.826 Century Avenue, Pudong Shanghai, 200120, China  
Tel: +86-21-80162606 E-mail: module@longi-silicon.com Facebook: www.facebook.com/LONGi Solar

Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LONGi have the sole right to make such modification at anytime without further notice; Demanding party shall request for the latest datasheet for such as contract need, and make it a consisting and binding part of lawful documentation duly signed by both parties.



# LR4-60HPH 350~375M

## Design (mm)



## Mechanical Parameters

Cell Orientation: 120° (6×20)  
 Junction Box: IP68, three diodes  
 Output Cable: 4mm<sup>2</sup>, 300mm in length,  
 length can be customized  
 Glass: Single glass  
 3.2mm coated tempered glass  
 Frame: Anodized aluminum alloy frame  
 Weight: 19.5kg  
 Dimension: 1755×1038×35mm  
 Packaging: 30pcs per pallet  
 180pcs per 20'GP  
 780pcs per 40'HC

## Operating Parameters

Operational Temperature: -40°C ~ +85°C  
 Power Output Tolerance: 0 ~ +5%  
 Voc and Isc Tolerance: ±3%  
 Maximum System Voltage: DC1500V (IEC/UL)  
 Maximum Series Fuse Rating: 20A  
 Nominal Operating Cell Temperature: 45±2°C  
 Safety Class: Class II  
 Fire Rating: UL type 1 or 2

## Electrical Characteristics

Test uncertainty for Pmax: ±3%

Model Number	LR4-60HPH-350M		LR4-60HPH-355M		LR4-60HPH-360M		LR4-60HPH-365M		LR4-60HPH-370M		LR4-60HPH-375M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	350	259.3	355	263.0	360	266.7	365	270.4	370	274.1	375	277.8
Open Circuit Voltage (Voc/V)	40.1	37.4	40.3	37.6	40.5	37.8	40.7	38.0	40.9	38.2	41.1	38.4
Short Circuit Current (Isc/A)	11.15	9.00	11.25	9.07	11.35	9.15	11.43	9.22	11.52	9.29	11.60	9.35
Voltage at Maximum Power (Vmp/V)	33.6	31.0	33.8	31.2	34.0	31.4	34.2	31.6	34.4	31.8	34.6	32.0
Current at Maximum Power (Imp/A)	10.42	8.35	10.51	8.43	10.59	8.49	10.68	8.56	10.76	8.63	10.84	8.69
Module Efficiency(%)	19.2		19.5		19.8		20.0		20.3		20.6	

STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

## Temperature Ratings (STC)

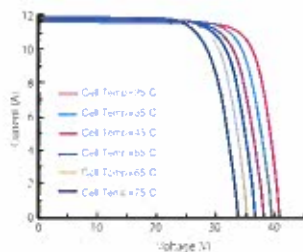
Temperature Coefficient of Isc: +0.057%/°C  
 Temperature Coefficient of Voc: -0.286%/°C  
 Temperature Coefficient of Pmax: -0.370%/°C

## Mechanical Loading

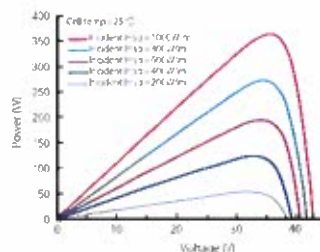
Front Side Maximum Static Loading: 5400Pa  
 Rear Side Maximum Static Loading: 2400Pa  
 Hailstone Test: 25mm Hailstone at the speed of 23m/s

## I-V Curve

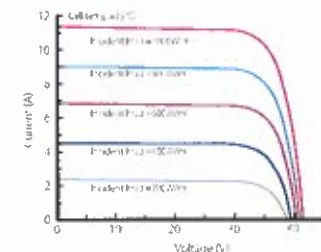
Current-Voltage Curve (LR4-60HPH-365M)



Power-Voltage Curve (LR4-60HPH-365M)



Current-Voltage Curve (LR4-60HPH-365M)



# LONGi

Room 801, Tower 3, Lujiazui Financial Plaza, No.826 Century Avenue, Pudong Shanghai, 200120, China  
 Tel: +86-21-80162606 E-mail: module@longi-silicon.com Facebook: www.facebook.com/LONGi Solar

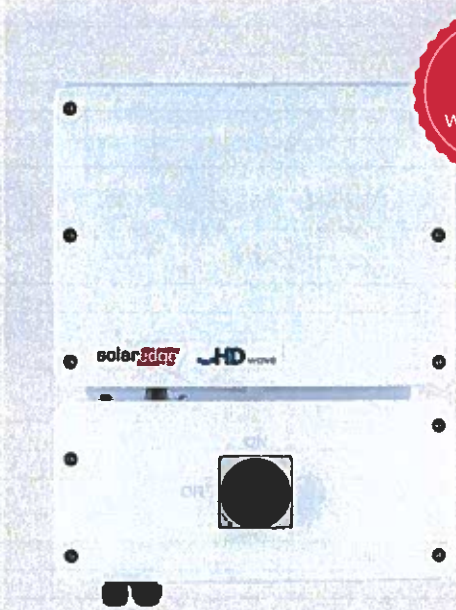
Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LONGi have the sole right to make such modification at anytime without further notice; Demanding party shall request for the latest datasheet for such as contract need, and make it a consisting and binding part of lawful documentation duly signed by both parties.

# Single Phase Energy Hub Inverter with Prism Technology

For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US /  
SE10000H-US / SE11400H-US<sup>(1)</sup>

HOME BACKUP



## Optimized battery storage with HD-Wave technology

- Record-breaking 99% weighted efficiency with 200% DC oversizing
- Small, lightweight, and easy to install
- Modular design, future ready with optional upgrades to:
  - DC-coupled storage for full or partial home backup
  - Built-in consumption monitoring
  - Direct connection to the SolarEdge smart EV charger
- Multi-inverter, scalable storage solution
  - With enhanced battery power up to 10kW
- Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020, per article 690.11 and 690.12
- Embedded revenue grade production data, ANSI C12.20 Class 0.5

# / Single Phase Energy Hub Inverter with Prism Technology For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US<sup>(1)</sup>

	SE3000H-US	SE3800H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	UNITS
<b>OUTPUT - AC ON GRID</b>							
Rated AC Power	3000	3800 @ 240V 3300 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W
AC Frequency Range (min - nom - max)	59.3 - 60 - 60.5 <sup>(2)</sup>						Hz
Maximum Continuous Output Current @ 240V	12.5	16	25	32	42	47.5	A
Maximum Continuous Output Current @ 208V	-	16	24	-	-	48.5	A
GFDI Threshold	1						A
Total Harmonic Distortion (THD)	<3						%
Power Factor	1, adjustable -0.85 to 0.85						
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes						
Charge Battery from AC (if allowed)	Yes						
Typical Nighttime Power Consumption	<2.5						W
<b>OUTPUT - AC BACKUP<sup>(3)</sup></b>							
Rated AC Power in Backup Operation <sup>(4)</sup>	3000	3800 7600*	6000	7600 10300*	10000	10300	W
AC L-L Output Voltage Range in Backup	211 - 264						Vac
AC L-N Output Voltage Range in Backup	105 - 132						Vac
AC Frequency Range in Backup (min - nom - max)	55 - 60 - 65						Hz
Maximum Continuous Output Current in Backup Operation	12.5	16 32*	25	32 43*	42	43	A
GFDI	1						A
THD	<5						%
<b>OUTPUT - SMART EV CHARGER AC</b>							
Rated AC Power	9600						W
AC Output Voltage Range	211 - 264						Vac
On-Grid AC Frequency Range (min - nom - max)	59.3 - 60 - 60.5						Hz
Maximum Continuous Output Current @240V (grid, PV and battery)	40						Aac
<b>INPUT - DC (PV AND BATTERY)</b>							
Transformer-less, Ungrounded	Yes						
Max Input Voltage	480						Vdc
Nom DC Input Voltage	380						Vdc
Reverse-Polarity Protection	Yes						
Ground-Fault Isolation Detection	600k $\Omega$ Sensitivity						
<b>INPUT - DC (PV)</b>							
Maximum DC Power @ 240V	6000	7600 15200*	12000	15200 22800*	22000	22800	W
Maximum DC Power @ 208V	-	6600	10000	-	-	20000	W
Maximum Input Current <sup>(5)</sup> @ 240V	8.5	10.5 20*	16.5	20 31*	27	31	Adc
Maximum Input Current <sup>(5)</sup> @ 208V	-	9	13.5	-	-	27	Adc
Max. Input Short Circuit Current	45						Adc
Maximum Inverter Efficiency	99	99.2					%
CEC Weighted Efficiency	99					99 @ 240V 98.5 @ 208V	%
2-pole Disconnection	Yes						

\* Supported with PN SExxxxH-USMMxxxxxx or SExxxxH-USMNxxxxxx

(1) These specifications apply to inverters with part numbers SExxxxH-USMMxxxxxx or SExxxxH-USMNxxxxxx and connection unit model number DCD-1PH-US-PxH-F-x

(2) For other regional settings please contact SolarEdge support

(3) Not designed for standalone applications and requires AC for commissioning. Backup functionality is only supported for 240V grid

(4) Rated AC power in Backup Operation are valid for installations with multiple inverters. For a single backup inverter operation, rated AC power in Backup is 90% of the value stated

(5) A higher current source may be used, the inverter will limit its input current to the values stated

# / Single Phase Energy Hub Inverter with Prism Technology For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US<sup>(1)</sup>

	SE3000H-US	SE3800H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	UNITS
<b>INPUT - DC (BATTERY)</b>							
Supported Battery Types	SolarEdge Energy Bank, LG RESU Prime <sup>(6)</sup>						
Number of Batteries per Inverter	Up to 3 SolarEdge Energy Bank, up to 2 LG RESU Prime						
Continuous Power <sup>(7)</sup>	6000	7600	10000				W
Peak Power <sup>(7)</sup>	6000	7600	10000				W
Max Input Current	16	20	26.5				Adc
2-pole Disconnection	Yes						
<b>SMART ENERGY CAPABILITIES</b>							
Consumption Metering	Built - in <sup>(8)</sup>						
Backup & Battery Storage	With Backup Interface (purchased separately) for service up to 200A; Up to 3 inverters						
EV Charging	Direct connection to Smart EV charger						
<b>ADDITIONAL FEATURES</b>							
Supported Communication Interfaces	RS485, Ethernet, Cellular <sup>(9)</sup> , Wi-Fi (optional), SolarEdge Energy Net (optional)						
Revenue Grade Metering, ANSI C12.20	Built - in <sup>(8)</sup>						
Integrated AC, DC and Communication Connection Unit	Yes						
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection						
DC Voltage Rapid Shutdown (PV and Battery)	Yes, according to NEC 2014, NEC 2017 and NEC 2020 690.12						
<b>STANDARD COMPLIANCE</b>							
Safety	UL1741, UL1741 SA, UL1741 PCS, UL1699B, UL1998, UL9540, CSA 22.2						
Grid Connection Standards	IEEE1547, Rule 21, Rule 14H						
Emissions	FCC part 15 class B						
<b>INSTALLATION SPECIFICATIONS</b>							
AC Output and EV AC Output Conduit Size / AWG Range	1" maximum / 14-4 AWG						
DC Input (PV and Battery) Conduit Size / AWG Range	1" maximum / 14-6 AWG						
Dimensions with Connection Unit (H x W x D)	17.7 x 14.6 x 6.8 / 450 x 370 x 174		17.7 x 14.6 x 6.8 / 450 x 370 x 174		17.7 x 14.6 x 6.8 / 450 x 370 x 174		in / mm
Weight with Connection Unit	26 / 11.8		26 / 11.8		30.2 / 13.7		lb / kg
Noise	< 25	< 25 < 50*	< 25	< 50			dBA
Cooling	Natural Convection						
Operating Temperature Range	-40 to +140 / -40 to +60 <sup>(10)</sup>						
Protection Rating	NEMA 4						

(6) The part numbers SExxxxH-USxMxxxx only support the SolarEdge Energy Bank. The part numbers SExxxxH-USxNxxxx support both SolarEdge Energy Bank and LG RESU Prime batteries. Requires supporting inverter firmware.

(7) Discharge power is limited up to the inverter rated AC power for on-grid and backup applications.

(8) For consumption metering current transformers should be ordered separately: SECT-SPL-225A-T-20 or SEACT0750-400NA-20 units per box. Revenue grade metering is only for production metering.

(9) Information concerning the Data Plan's terms & conditions is available in the following link:

<https://www.solaredge.com/sites/default/files/se-communication-plan-terms-and-conditions-eng.pdf>

(10) 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>

# Agenda Item 5

## Laura Smith

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**From:** [REDACTED]  
**Sent:** Sunday, November 13, 2022 9:42 PM  
**To:** Laura Smith; Jim Paquin  
**Subject:** [EXTERNAL]Solar panels in Tolland historic district

Good evening

I am writing in support of Kris Farley and bid for solar panels on his home. I understand that's the historic commission believes solar panels to be a nuisance and degrading to the historic area.

I also understand that Kris' home was built in 2006 and is a modern building with modern code and regulations. Further I believe the historic district actually sits behind his property and may not actually include his home. And with the amount of sun his roof gets every day it can only benefit all businesses and important services which share that section of the electric grid.

It does seem reasonable that the historic commission might have reservations about the visual nature of the panels, but having added panels to my own house on Cook Rd in the last 3 years, I don't even notice them or anyone else's panels. And they certainly do not detract from the curb appeal of my home or any other home I've seen with panels installed. On the topic of curb appeal, however, there are some homes on the green with questionable landscaping and maintenance trouble which would seem to be a higher priority for the committee than a member of the community wanting to add value and efficiency to his modern 2006 construction.

I completely understand and support the area's history and the committee's desire to preserve the lasting monuments of Tolland's past in and around the district.

I also believe, however, that Tolland residents should have a choice in how and in what fashion they are able to obtain their power. I believe that we live in a free society should be allowed this choice for properties we own, and understand that it does not impact the historic nature of this beloved town.

Thank you for your time

[REDACTED]

## Laura Smith

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**From:** Jim Paquin  
**Sent:** Monday, November 14, 2022 8:21 AM  
**To:** Laura Smith  
**Subject:** FW: [EXTERNAL]675 Tolland Stage Road Solar Support

This one had your email address wrong. So, here it is!

James Paquin  
Chief Building Official  
Town of Tolland, CT  
(860) 871-3601

**\*\*Please note the change in my email address to: [jpaquin@tollandct.gov](mailto:jpaquin@tollandct.gov)**

**From:** amy ezis [REDACTED]  
**Sent:** Sunday, November 13, 2022 3:27 PM  
**To:** lsmith@tollandct.gov; Jim Paquin <jpaquin@Tollandct.gov>  
**Subject:** [EXTERNAL]675 Tolland Stage Road Solar Support

Hello,

I am in full support of this home owner being allowed to install solar panels. This home is far enough off the Green to not interfere with the historical district on the Green.

Sincerely,  
Amy Green  
[REDACTED]

[Sent from AT&T Yahoo Mail for iPhone](#)

**Laura Smith**

---

**From:** Peter Kootsookos [REDACTED]  
**Sent:** Wednesday, November 2, 2022 10:24 AM  
**To:** [REDACTED]  
**Subject:** [EXTERNAL]Certificate of Appropriateness for 675 TOLLAND STAGE ROAD TOLLAND, CT 06084

Dear Historic District Commission of Tolland, CT,

I write in support of Kris Farley's application to add solar panels to his 2006-built house at 675 TOLLAND STAGE ROAD TOLLAND, CT 06084 ([GIS Link](#)).

**Building Information**

**Building 1 : Section 1**

Year Built: 2006  
Living Area: 2,561  
Replacement Cost: \$282,030  
Building Percent Good: 92  
Replacement Cost  
Less Depreciation: \$259,500

**Building Photo**



**Building Layout**

Building Attributes	
Field	Description
Style:	Colonial
Model	Residential
Grade:	Good
Stories:	2 Stories
Occupancy	1
Exterior Wall 1	Clapboard
Exterior Wall 2	

As you are aware, the house was built in 2006. While I am not aware of the building on the site before 2006, it is interesting that such a modern building is now considered to be under the purview of the Historic District Commission. I believe that horse -- impacting the historic nature of the area -- has bolted.

Kris has developed some pictures showing how the house will look from various aspects once the solar panels are in place.





STREET VIEW 1



STREET VIEW 2



AERIAL VIEW

<b>SUNRUN</b>
CUSTOMER RESIDENCE 1812 TOP HER FARM LN 875 TOLLAND SPRUCE RD TOLLAND, CT 06868
PROJECT NUMBER 2318-629046

I think you can agree that the impact on the view of the house is minimal.

As an electrical engineer interested in improving our green energy usage, my personal opinion is that the view of the property is improved.

Kris and his household have added greatly to the community spirit of Tolland.

I request that you do as Chapter 96 Historic Districts suggests and administer the historic district with common sense.



Regards,

Peter J. Kootsookos (he/him)

**Laura Smith**

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**From:** Peter Kootsookos [REDACTED]  
**Sent:** Wednesday, November 2, 2022 10:29 AM  
**To:** Peter Kootsookos  
**Subject:** [EXTERNAL]Re: Certificate of Appropriateness for 675 TOLLAND STAGE ROAD TOLLAND, CT 06084

PS:

My full name is Peter James KOOTSOOKOS.

My address is:



**Peter J. Kootsookos** (he/him)



---  
**IEEE: Advancing Technology for Humanity**



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**From:** Peter Kootsookos [REDACTED]  
**Date:** Wednesday, November 2, 2022 at 10:24  
**To:** Peter Kootsookos [REDACTED]  
**Subject:** Certificate of Appropriateness for 675 TOLLAND STAGE ROAD TOLLAND, CT 06084

Dear Historic District Commission of Tolland, CT,

I write in support of Kris Farley's application to add solar panels to his 2006-built house at 675 TOLLAND STAGE ROAD TOLLAND, CT 06084 ([GIS Link](#)).

## Laura Smith

---

**From:** Jim Paquin  
**Sent:** Monday, November 14, 2022 8:20 AM  
**To:** Laura Smith  
**Subject:** FW: [EXTERNAL]Solar panels

Laura- This one wasn't sent to you, so I am sending it to you.

James Paquin  
Chief Building Official  
Town of Tolland, CT  
(860) 871-3601

**\*\*Please note the change in my email address to: [jpaquin@tollandct.gov](mailto:jpaquin@tollandct.gov)**

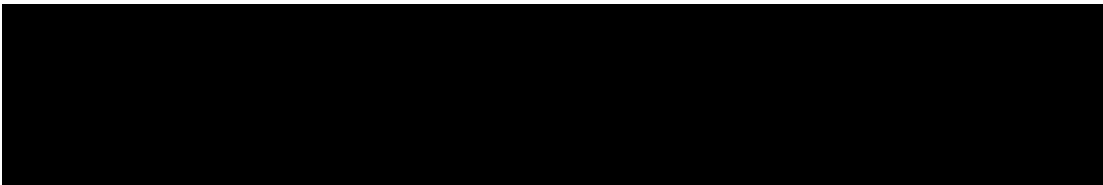
**From:** Jessica M [REDACTED]  
**Sent:** Sunday, November 13, 2022 6:12 PM  
**To:** Jim Paquin <jpaquin@Tollandct.gov>  
**Subject:** [EXTERNAL]Solar panels

Hi there!

I was writing to give my opinion on the solar panels that are apparently being declined for install because of the historical area. I am able to see the panels on the back roof at the historic building at the green. So for Chris being denied solar on his own home, in which the historical sign is actually after his house, to me is pretty weird. I would hope the town would allow a person to put solar on his or her roof or property. Please reconsider allowing this home to use solar.

Thanks

Jess M



**Laura Smith**

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**From:** DEBORAH MILLER [REDACTED]  
**Sent:** Sunday, November 13, 2022 2:04 PM  
**To:** Laura Smith  
**Subject:** [EXTERNAL]Solar panels for 675 Tolland Stage Rd

Please allow this home to install solar panels. I do understand it is in a historic district but in this economy with soaring energy costs an exception should be made. I think most residents would agree that green initiative should take precedence over aesthetics.

Sincerely,  
Deborah and Daniel Miller

[REDACTED]

Sent from my iPhone

## Laura Smith

---

**From:** Tammy Nuccio [REDACTED]  
**Sent:** Thursday, November 10, 2022 8:23 AM  
**To:** Laura Smith; Jim Paquin  
**Subject:** [EXTERNAL]Solar

Good morning, I'm writing in with support for solar panelling on homes in the Historic District. Solar panels are not a permanent structure in my opinion and solar panels are good for not only our residents but also our environment. I absolutely value the historic district of our town and I love it, with that said, I think we should be able to find a way to have both.

Sincerely,

Tammy Nuccio

## Laura Smith

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**From:** Christina Plourd [REDACTED]  
**Sent:** Monday, November 7, 2022 10:47 PM  
**To:** Laura Smith  
**Cc:** Jim Paquin  
**Subject:** [EXTERNAL]Solar hearing

To whom it may concern:

Please allow all Tolland Residents the freedom to install solar panels on their property regardless of the area of town they live in. This should be their choice. It is their property. Thank you for your consideration!

Sincerely,  
Christina Plourd

**Laura Smith**

---

**From:** [REDACTED]  
**Sent:** Monday, November 14, 2022 3:43 PM  
**To:** Laura Smith  
**Cc:** Jim Paquin  
**Subject:** [EXTERNAL]Solar Panel Installment on 675 Tolland Stage Rd

[REDACTED]

Hello, I am writing this email in regard to show my support for the installation of solar panels on the property, 675 Tolland Stage Rd Tolland, CT 06084. The property lies in the historic district of the town yet was built in the year 2006. Solar Panel installation would not detract from the conservation of this premises yet would benefit it too; with updated electricity power connections, this house would be updated to more efficient and safe lines which could reduce the potential of any fire outbreaks that would come with old lines. The panels wouldn't change the look of the house, and the same initial "historical" structure would remain. I believe this residence should be allowed to carry through with their solar panel plan, and other homes in this district should be allowed to do so too.

Thank you very much  
(I would like to remain anonymous with this response)

## Laura Smith

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**From:** Madhu Renduchintala [REDACTED]  
**Sent:** Wednesday, November 2, 2022 12:53 PM  
**To:** Laura Smith; Jim Paquin  
**Subject:** [EXTERNAL]House With the Giant Pumpkin

Hi I understand that the residents of the home with the giant pumpkin are looking to get solar panels. You can see no good reason why they should not be able to. The house isn't historic and the energy they produce will be going back to support other infrastructure in the area.

- Madhu



# Agenda Item 7



**TOLLAND GREEN HISTORIC DISTRICT COMMISSION**  
**Application for a Certification of Appropriateness**

**RECEIVED**  
 OCT 31 2022  
 BY: hs

**Property Information**

Property Address: 89 Tolland Grn

Property Owner: Theodore Tick

Phone Number: [REDACTED]

**Applicant Information**

Applicant Name: SLMC

Applicant Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Email Address: \_\_\_\_\_

**Project Information**

Type of Building: COLONIAL

Nature and description of work to be done as it affects exterior appearance. Attach appropriate drawing or plans giving the position of the house or structure on the site, ground plan of house with proposed addition, and all pertinent elevations showing size and style of windows, dormers, doors, exterior wall finishes, roofing material, chimneys, vents and ornamentation. (If more space needed, attach sheet to application.)

REMOVE TWO SAVED GARAGE WINDOW (1845)  
COVER EXTERIOR TO LIKE BUILDING

**Estimated Start and Completion Dates:**

Start: OCT 2022 Complete: MARCH 2023

1. Attach a photograph of the existing structure or place to be changed as viewed from the street showing that portion of the structure to be altered, together with a drawing of the proposed alteration or change.
2. Application fee of \$75.00 must accompany application (make checks payable to Town of Tolland).
3. Application form, fee, plans, photograph and drawing must be submitted to **Planning & Building Department**. — Public Hearings will be scheduled within not more than sixty-five days after the filing of an application.

*Certificate of Appropriateness will expire 1 year from date of approval.*

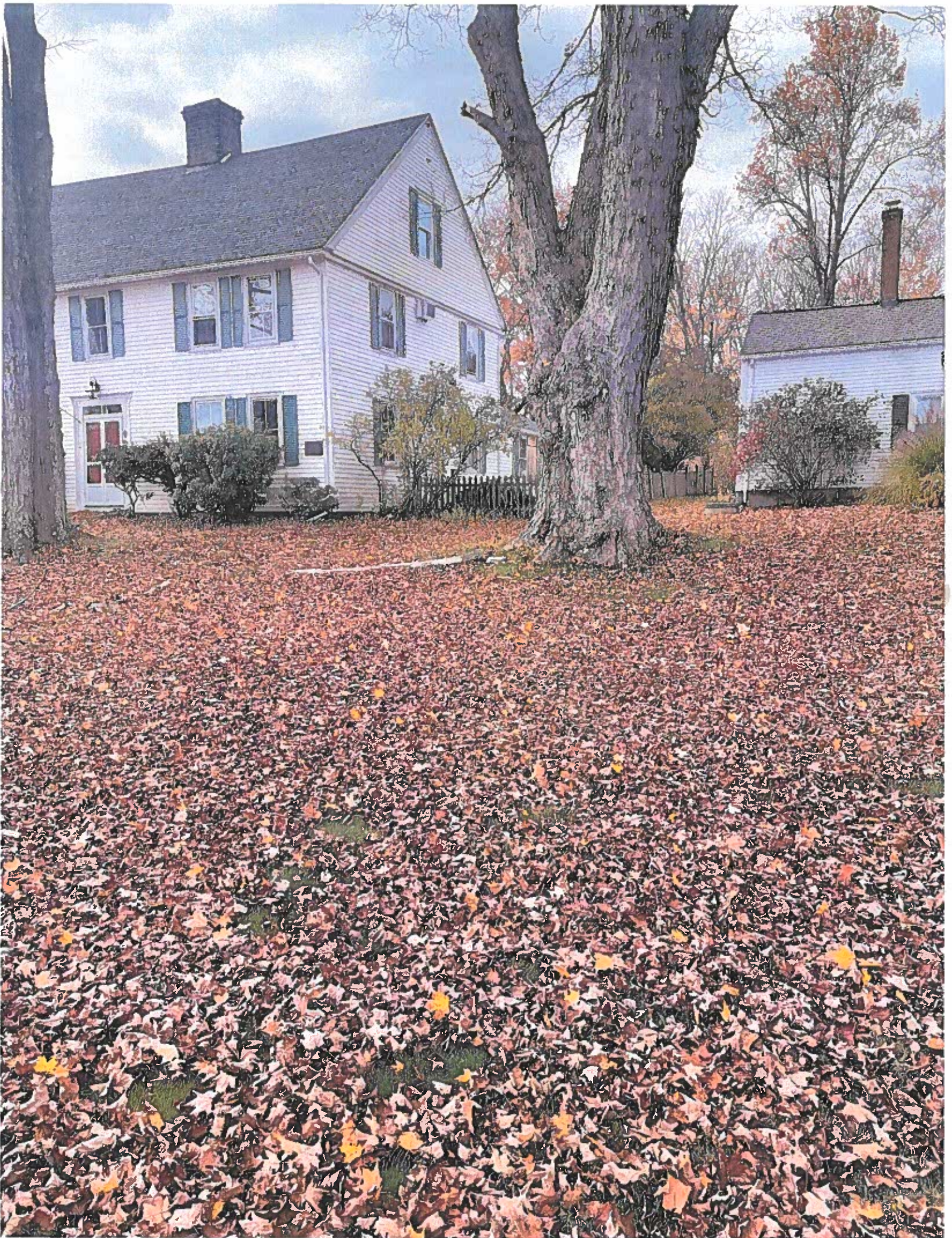
This application form and all accompanying plans and materials are accurate and complete:

Applicant Signature: [Signature] Date: OCT 28, 2022

Property Owner Signature: [Signature] Date: 21

-----OFFICE USE ONLY-----

Received & Fee Paid:	<u>10/31/22 \$75.00</u>	Hearing Scheduled:	
Hearing Advertised:		Action:	
Notice of Action to Applicant:		HDC Due Date:	





# Regular Meeting

# Agenda Item

13.1

# **HISTORIC DISTRICT COMMISSION**

## **2023 MEETING SCHEDULE**

**7:00 PM**

January 18

February 15

March 15

April 19

May 17

June 21

July 19

August 16

September 20

October 18

November 15

December 20

The Historic District Commission Regular Meetings will be held on the 3rd Wednesday of each month. Unless advised otherwise, all meetings will be held remotely with link to meeting on agendas.

Check the Town website for meeting cancellations or special meetings.

# Agenda Item 15



**TOLLAND GREEN HISTORIC DISTRICT COMMISSION**  
**Wednesday, September 22, 2022 at 7:00 p.m.**  
**REMOTE MEETING**

**Public Hearing**

1. Call to Order at 7:05 pm by Chair

2. Roll Call

Commissioners: Jodie Coleman-Marzialo, Chair, Rod Hurtuk, Vice-Chair, Ann Deegan, substitute clerk, Celeste Senechal, Mariah Bumps seated for Kathy Bach.

Guests: Brendan West 94 Tolland Green

3. Reading of Public Notice as appearing in Journal Inquirer by the Chair

4. Consideration of Application for a COA at 94 Tolland Green for 8 Ft. vinyl fence with gate on the north side of the property. (Previously tabled from the last meeting) Said fence will be obscured by plantings: 8 ft. arborvitae, boxwood and white pampas grasses.

4.1 Discussion: Mr. West has spoken with the landscaper and has made him aware of the need to hide the fence

Celeste Senechal questioned Mr. West as to why he had not gotten a COA as required. He explained he had a lot going on and it was merely an oversight.

It was suggested by the Commission members that Mr. West plant mainly arborvitae as they are fast growing and will serve the purpose of hiding the fence best in all seasons.

He said he would and would plant them 3 ft apart.

5. Neighbor comments, both for and against – Mr. Hurtuk, 76 Tolland Green told how he has these fast growing arborvitaes on his property planted 3 ft apart and they serve nicely to ensure privacy.

6. Close of Public Hearing at 7:14 pm by R. Hurtuk, 2<sup>nd</sup> M. Bump, Vote, Unanimous

**Regular Meeting**

7. Call to Order at 7:14 pm by Chair, Roll remains the same

8. Consideration of COA for 94 Tolland Green by Commission for 8 ft vinyl fencing with a gate.

8.1 discussion: C. Senechal stated that she felt it was poor precedent to allow plastic in the Historic District and stated that lately people have been ignoring the need for a COA and obtaining one after the fact. It was also discussed that the commission would not approve but instead use the wording granted by default.

Motion to grant the COA requested by Mr. West by default with the stipulation that the fencing would be obscured mainly by arborvitae taller than the fence such that the fence would not be visible from the right of way. (Preferably the arborvitae would be 8 – 10 ft tall and spaced every 3 ft.).

Motion: R. Hurtuk, 2<sup>nd</sup> A. Deegan. In favor: J. Coleman-Marzialo, M. Bumps, R. Hurtuk, and A. Deegan. Nay: C. Senechal. She believes it sets a poor precedent.

9. New Business none

9.1

10. Miscellaneous

10.1 Discussion that the COA for Mr. West's fence should be granted, as installed without Commission approval as to appropriateness, without prejudice to any other Applications which may later come to the Commission, either for vinyl fencing, or for any other feature, and specifically addressed to premature installations of features lacking approval by the Commission.

10.2 Discussion about the fence at 89 Tolland Green. Mr. Jick received a letter concerning the need for the fence to be painted. He has still not complied with this requested. As the enforcer, Mr. Hurtuk was asked to send another reminder. It will first be sent to Mr. J. Paquin at Town Hall

10.3 Discussion of the porch work being done at 714 Tolland Stage Road. It appears that the owner is replacing wood for wood so it was agreed that this was just maintenance.

10.4 Discussed Mr. Hughes letter regarding the vacant alternate position on the Commission. Everyone thought that having Mr. Hughes, as an alternate was a good choice especially due to his knowledge of wood and his work on his own home (the old grange). The town council will vote this on next week. C.

Senechal was accepted as a full member of the commission at the September 6<sup>th</sup> town council meeting.

10.5 The present terms of J. Coleman-Marzialo member and M. Bumps, alternate will conclude as of November 12, 2022. They have both agreed to serve again.

10.6 Discussed and reviewed our new handbook of guidelines and discussed how we could use some of the ideas from those of Wethersfield, CT.

Celeste reiterated the importance of having electric boxes painted the same color as the house. It is also advised that vehicles not drive over the public granite sidewalks.

Jodie liked the fact that Wethersfield included a map of the historic district and also their COA application (page 21 of their document) that might be helpful to both the town and us as it includes reference to the public hearing and the results of the voting on the COA.

Maybe Laura could include this information in our guidelines?

10.7 Jodie discussed again the desire to have the TGHDC to apply for a National Scenic Byway and All American Road designation. Jodie stated that Kathy would continue to gather and prepare information for this application.

10.8 Discussed the expansion of the Veteran's Memorial on the Green. Jodie expressed interest in being involved with the planning part of this process as plantings on the Green fall under commission jurisdiction.

9

10.9 The need for a review of the state roadway project on the Green was discussed. Does the present configuration truly calm traffic on the Green? Jodie stated that she had sent a letter to the town council. Steve Jones replied and had a few questions.

11. Motion to approve the minutes of the August 17, 2022 meeting by C. Senechal, 2<sup>nd</sup> A. Deegan, Vote Unanimous.

12. Motion for adjournment at 8:14pm by R. Hurtuk, 2<sup>nd</sup> A. Deegan. Vote, Unanimous

Respectfully submitted,

Ann Deegan, Substitute Clerk

9/25/22

# Miscellaneous Documentation



# Zoning Map, Town of Tolland, CT

## Zoning

 Historic District

