BUILDING DEPARTMENT
VILLAGE OF GREENPORT
236 Third Street, Greenport, NY 11944

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VILLAGE OF GREENPORT
BUILDING DEPARTMENT

# HISTORIC PRESERVATION COMMISSION REVIEW

## APPLICATION FOR CERTIFICATE OF APPROPRIATENESS

PURSUANT TO THE PROVISIONS OF CHAPTER 48
HISTORIC PRESERVATION LAW OF THE VILLAGE OF GREENPORT

DATE OF APPLICATION: 10/9/25

LOCATION OF PROPERTY: 512 Carpenter St Greenport, NY 11944

SUFFOLK COUNTY TAX MAP NUMBER: 1004 - 003.00 - 05.00 - 004.001

PROPERTY OWNER: Rebecca Miller

ADDRESS: 512 Carpenter St. Greenport PHONE: 646-338-6746

EMAIL ADDRESS: Carpenter512@gmail.com

ARCHITECT/DESIGNER: ~~N/A~~ Element Energy LLC

ADDRESS: 1470 Sound Ave, Mattituck NY 11952 PHONE: 631-388-7041

EMAIL ADDRESS: Permits@e2sys.com

## Type of Proposed Work

☐ COMMERCIAL ☒ RESIDENTIAL

## Site Work

___ FENCE AND GATES
___ DRIVEWAY, WALK, PATIO, OTHER PAVEMENT
___ MAJOR EXCAVATION OR REGRADING, OR BERM
___ SWIMMING POOL, TENNIS COURT
___ OTHER STRUCTURAL LANDSCAPE ELEMENT
___ SIGNAGE AND AWNINGS - SUBMIT SCALE DRAWINGS TO INDICATING TO FOLLOWING:
- SIZE OF EACH SIGN
- COLOR
- FONT
- LOCATIONS OF ALL SIGNAGE AND AWNINGS ON BUILDING
- PROPOSED MATERIALS

X MODERN FEATURES
-SOLAR PANELS - roof mounted, flush rear of home
-SKYLIGHTS
-OUTDOOR SHOWERS
___ OTHER

## Landscape Planting

___ HEDGE ALONG STREET AND/OR PROPERTY BOUNDARY LINES
___ PLANTINGS INTENDED TO SCREEN OTHER WORK DESCRIBED IN THIS APPLICATION

## Buildings

____ NEW CONSTRUCTION
____ ADDITION
____ DEMOLITION
____ REMOVAL
____ ACCESSORY BUILDING

## Building Alterations

____ EXTERIOR WALL MATERIAL
____ ROOF MATERIAL AND COLOR
____ CHIMNEY MATERIAL
____ FOUNDATION MATERIAL
____ DOORWAYS (INCLUDING STORM/SCREEN DOORS)
____ WINDOWS (INCLUDING STORM/SCREEN SASH) AND SHUTTERS
____ PORCHES AND STEPS
____ TRIM AND DECORATIVE DETAIL
____ GUTTERS AND LEADERS
____ PAINT AND STAIN
____ EXTERIOR LIGHTING
____ OTHER

PROVIDE A GENERAL DESCRIPTION OF THE PROPOSED WORK (USE ADDITIONAL SHEETS IF NECESSARY, REFER TO THE ACCOMPANYING EXHIBITS).

Install flush Roof mounted Solar PV System in rear of home
6.160 kw

LIST ALL EXHIBITS SUBMITTED WITH THIS APPLICATION. ACTUAL SAMPLES OF MATERIALS AND/OR DESCRIPTIONS OF ACTUAL MATERIALS ARE REQUIRED. (REFER TO THE INSTRUCTIONS FOR THE REQUIRED SUBMISSIONS).

photos

OTHER APPROVALS REQUIRED:

**SIGNATURE OF OWNER OR AUTHORIZED AGENT:** Lorraine Dilenk

**DATE:** 10/8/25

HD HYUNDAI ENERGY SOLUTIONS

eng.hd-hyundaies.co.kr

# HD HYUNDAI SOLAR MODULE

## NF(BK) Series

### Premium N-Type TOPCon Module

HiS-T430NF(BK) | HiS-T435NF(BK) | HiS-T440NF(BK)

22.53%
22.53%
High Efficiency

TOPCon
High-End
TOPCon
Technology

Higher
Bifaciality

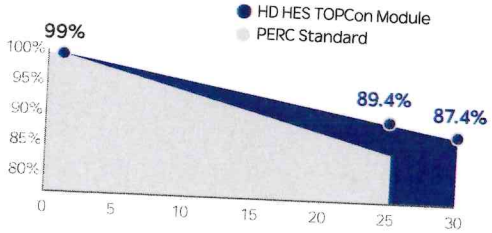
Long-Term
Reliability

For Residential
(Full Black Design)

### HD Hyundai's Warranty Provisions

25 YEARS
- 25-Year Product Warranty
  - Materials and workmanship

30 YEARS
- 30-Year Performance Warranty
  - First year degradation: 1%
  - Linear warranty after initial year: with 0.4%p annual degradation, 87.4% is guaranteed up to 30years




*Refer to HD HES standard warranty for details

### Certification

US LISTED E325005

- UL 61215 / UL 61730 / IEC 61215 / IEC 61730 Certified
- ISO 9001 : Quality management systems
- ISO 14001 : Environmental management systems
- ISO 45001 : Occupational health and safety management systems

## Electrical Characteristics

| HiS-TxxxNF(BK) | | HiS-T430NF(BK) | | HiS-T435NF(BK) | | HiS-T440NF(BK) | |
|---|---|---|---|---|---|---|---|
| Item | Unit | | BNPI | | BNPI | | BNPI |
| Nominal output (Pmax) | W | 430 | 477 | 435 | 482 | 440 | 487 |
| Open circuit voltage (Voc) | V | 39.49 | 39.64 | 39.69 | 39.84 | 39.90 | 40.05 |
| Short circuit current (Isc) | A | 13.83 | 15.32 | 13.91 | 15.41 | 14.06 | 15.58 |
| Voltage at Pmax (Vmpp) | V | 32.51 | 32.70 | 32.74 | 32.87 | 32.82 | 32.95 |
| Current at Pmax (Impp) | A | 13.23 | 14.59 | 13.29 | 14.67 | 13.41 | 14.79 |
| Module efficiency | % | 22.02 | | 22.28 | | 22.53 | |
| Power Class Sorting | W | 0 ~ +5 | | | | | |
| Temperature coefficient of Pmax | %/K | -0.290 | | | | | |
| Temperature coefficient of Voc | %/K | -0.250 | | | | | |
| Temperature coefficient of Isc | %/K | 0.043 | | | | | |
| Bifaciality | % | 80±5 | | | | | |

*STC : Irradiance 1,000 W/m², cell temperature 25℃, AM=1.5 / Test uncertainty for Pmax ±3%; Isc; Voc ±5%
**The electrical properties of BNPI are measured under the irradiance corresponding to 1000 W/m² on the module front and 135 W/m² on the module rear.

| Additional Power Gain from rear side | | | | | |
|---|---|---|---|---|---|
| Pmpp gain | Pmpp[W] | Vmpp[V] | Impp[A] | Voc[V] | Isc[A] |
| 5% | 462 | 32.82 | 14.08 | 39.90 | 14.77 |
| 15% | 506 | 32.82 | 15.42 | 39.90 | 16.17 |
| 25% | 550 | 32.82 | 16.76 | 39.90 | 17.58 |

*Electrical characteristics with different rear power gain (reference to 440W)

## Mechanical Characteristics

| | |
|---|---|
| Dimensions | 1,722mm (L) x 1,134mm (W) x 30mm (H)<br>(67.8in x 44.6in x 1.2in) |
| Weight | 24.3 kg (53.57 lbs) |
| Solar Cells | N-Type TOPCon, 108 (6x18) monocrystalline 16BB half-cut bifacial cells |
| Output Cables | Cable : (+)1,200mm(47.2in), (-)1,200mm(47.2in) / Customized length available<br>Connector : Stäubli MC4 genuine Connector / IP68 |
| Junction Box | 3-part, 3 bypass diodes, IP68 rated |
| Construction | Front : 2.0mm(0.08in) semi-tempered solar glass with high transmittance and anti-reflective coating<br>Rear : 2.0mm(0.08in) semi-tempered solar glass |
| Frame | Anodized aluminum alloy |

## Installation Safety Guide

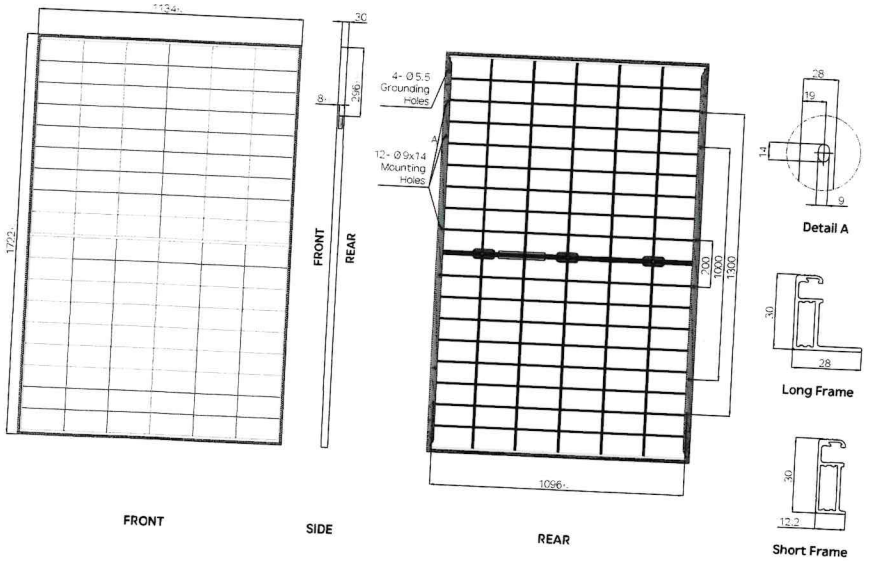
- Only qualified personnel should install or perform maintenance.
- Be aware of dangerous high DC voltage.
- Do not handle or install modules when they are wet.

| | |
|---|---|
| Nominal Module Operation Temperature | 41℃ ± 2℃ |
| Operating Temperature | -40℃~+85℃ |
| Maximum System Voltage | DC 1,500 V |
| Maximum Reverse Current | 30A |
| Maximum Test Load | Front 5,400Pa<br>Rear 4,500Pa |
| Fire Performance | Type 29 |

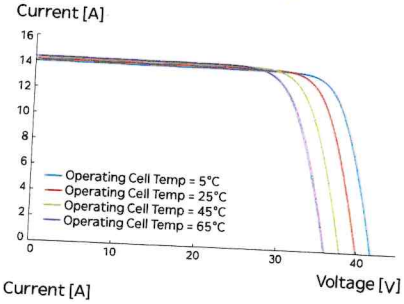
## Shipping Configurations

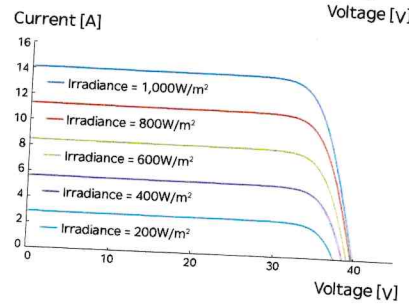
| | | | |
|---|---|---|---|
| Container Size (HC) | 40' | Modules Per Pallet (pcs) | 36 |
| Pallets Per Container | 22 | Modules Per Container (pcs) | 792 |

## Module Diagram (unit : mm)




## I-V Curves (HiS-T440NF(BK))




**Sales & Marketing**
hes.sales@hd.com



HD HYUNDAI ENERGY SOLUTIONS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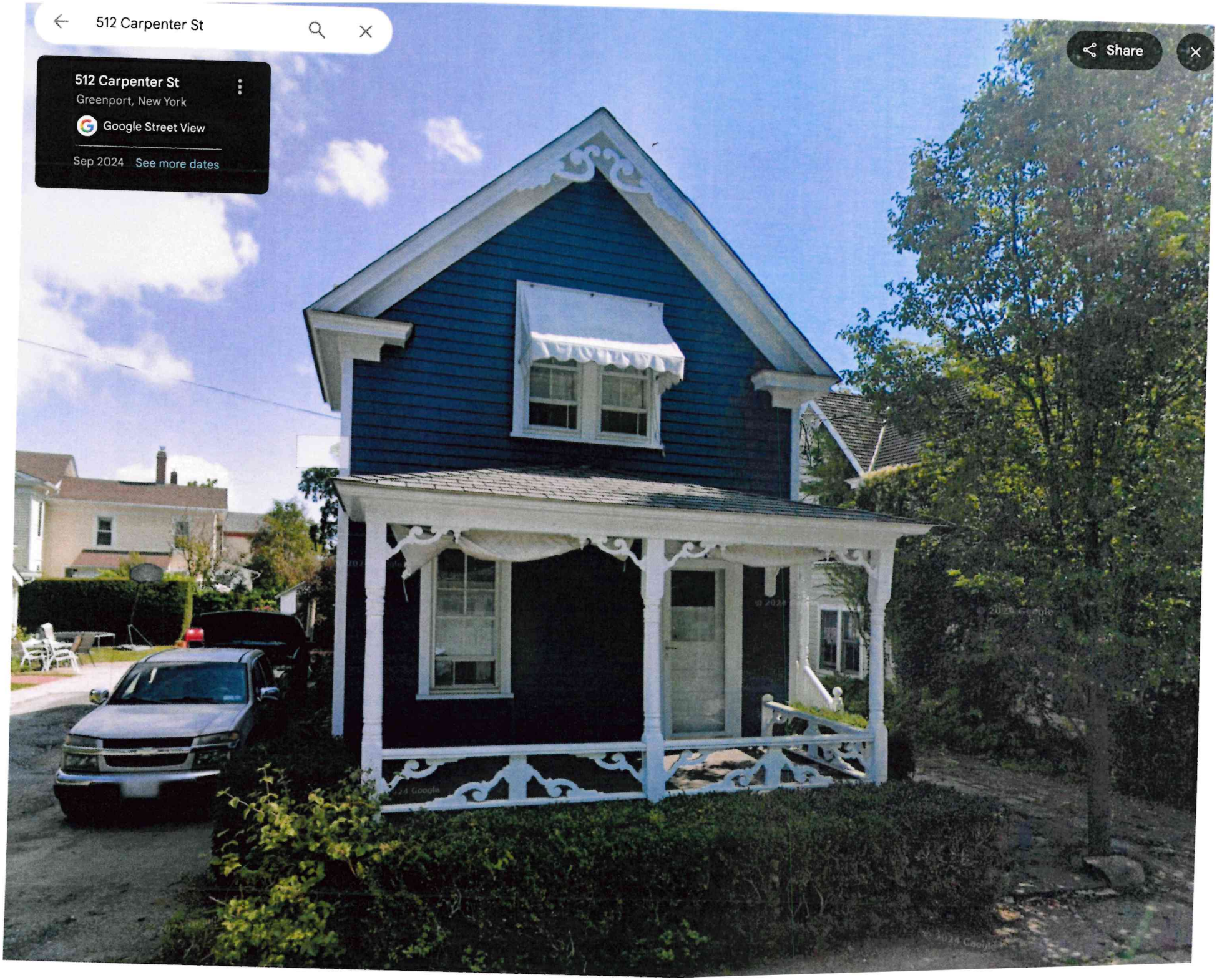
Suffolk County, NY
Report an Issue
512 CARPENTER ST, GRE
Show search results for 512 CA...
512 Carpenter Street Greenport 11944
Tax Map #: 1001-003.00-05.00-004.001
PARCEL ID 1001003000500004001
ADDRESS 512 Carpenter Street
CITY Greenport
ZIP CODE 11944
ACRE CALCULATED 0.08
LAND USE CODE 210: SIMPLEX
REBECCA MILLER
OWNER STEPHEN MORROW
REPORT AN INCORRECT ADDRESS
Click Arrow for more Information
Zoom to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# YOUR SOLAR PANEL DESIGN

ELEMENT ENERGY

**CUSTOM ENGINEERED FOR:**
Rebecca Miller

**PROJECT LOCATION:**
512 Carpenter St, Greenport, NY 11944, USA

**PROPOSED SYSTEM SPECIFICATIONS**

**14** Roof-mounted & **0** Ground-mounted
SOLAR PV MODULES

**6.16 kW**
SYSTEM SIZE

**5,858 kWh**
ANNUAL ENERGY PRODUCED

System

HiS-T440NF(BK)
Hyundai Energy Solutions

Modules

Qty: 14

NOTES:

ACCEPTED: Stephen Morrow DATE: 08 / 10 / 2025

Powered by Element Energy LLC - "Save Money, Save the World"
7470 Sound Avenue, Mattituck, NY 11952
631.779.7993 - www.e2sys.com