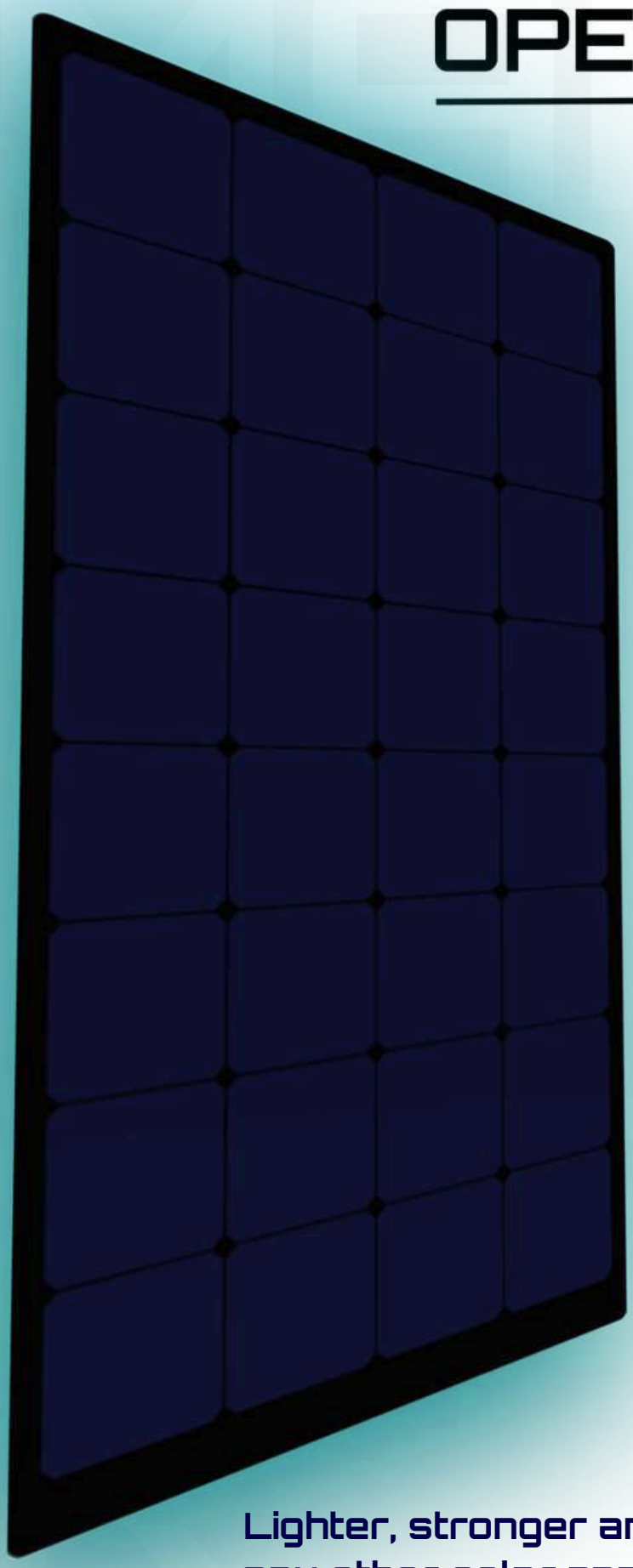
OPEN WATERS
SOLAR



# MARINE SOLAR MADE BETTER

## FEATURES

**Durable**: 3rd-Party Crack Resistant Validated

**Lightweight**: 0.58 lb/ft² / 2.83 kg/m²

**Flexible**: Ability to Bend 90°+

**Versatile**: Adaptable to Systems of Any Voltage

**Trusted**: 5 Year Comprehensive Warranty

**Thin**: 0.05 inches / 1.3mm

**Protected**: UV Resistant Awlgrip Clearcoat

**Sleek**: Full Matte Black Appearance

**Powerful**: Industry Leading 24% Cell-Field Efficiency

**Advanced**: Inline Bypass Diodes for Shading

**Smart**: Waterproof and Salt Water Resistant

**Quality**: Made and Designed in Canada

**Walkable**: Non-Slip Clear Coat

**Simple**: Peel & Stick Install with 3M-VHB, sealant edges

**Lighter, stronger and more durable than any other solar panel on the market.**

OPEN WATERS
SOLAR

## 115W Flex Series



## SolaDek™



Our panels are thin, lightweight, flexible, and durable, delivering 24% efficiency without the need for bulky support structures. Unlike conventional flexible panels, Open Waters Solar is fully walkable, saving valuable deck space and integrating seamlessly into your boat's design providing high performance without sacrificing style.

Built with advanced composite fibreglass encapsulation, our panels are impact-resistant and designed for durability in demanding environments. Our advanced technology ensures that the panels maintain their strength and flexibility while remaining lightweight, offering long-lasting reliability and unmatched aesthetics.

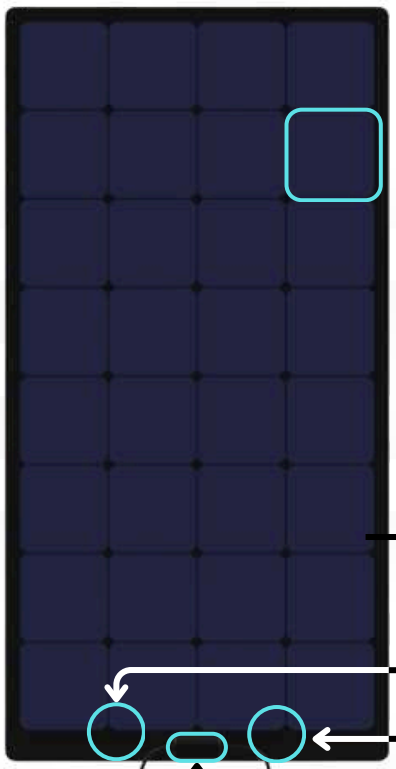
MADE IN
CANADA

| Specification | 115W Flex Series | SolaDek<br>Custom Solar |
|---|---|---|
| **Max Power (± 5%) W** | 115W | @ Max 400W \| 216W/m² |
| **Length Y (in) [cm]** | (41.5") [105.41cm] | @ Max: (61.5") [156.21cm] |
| **Width X (in) [cm]** | (21.5") [54.61cm] | @ Max: (46.5") [118.5cm] |
| **Thickness (in) [mm]**<br>Without 3M VHB Backing | (0.051") [1.3mm] | (0.051") [1.3mm] |
| **Weight (lbs) [kg]**<br>Without 3M VHB Backing | (3.75lbs) [1.7kg] | (0.58 lb/ft²) [2.83kg/m²] |
| **Cell Type** | Maxeon Gen III NE3<br>24% Efficiency | Maxeon Gen III NE3<br>24% Efficiency |
| **Cell Arrangement** | 32 (4 x 8) | @ Max: 108 (12 x 9) |
| **Open Circuit Voltage Voc [V]** | 23V | @ Max: 78V |
| **Short Circuit Current Isc [A]** | 6.37 | 6.37 |
| **Max Power Voltage Vmp [V]** | 19V | @ Max: 67V |
| **Max Power Current Imp [A]** | 6 A | 6 A |
| **Max Operating Temp. (°F) [°C]** | (203°F) [95°C] | (203°F) [95°C] |
| **Max System Voltage [V]** | 600V | 600V |
| **VHB TAPE BACKING:**<br>Only Tape Not Including Panel | (0.09") [2.3mm]<br>(2 lb) [0.93 kg] | (0.09") [2.3mm]<br>(0.33 lb/ft²) [1.62 kg/m²] |

# 115W Flex Series

546 mm 4 Cells

Awl-Grip Non-Slip Coating



Maxeon Gen III NE3
24% Efficiency

1079 mm 8 Cells

ALEXSEAL Premium Topcoat 501
polyurethane-based coating on rear

Two Inline Bypass Diodes

Front Mount Junction Box

MC4 Connector

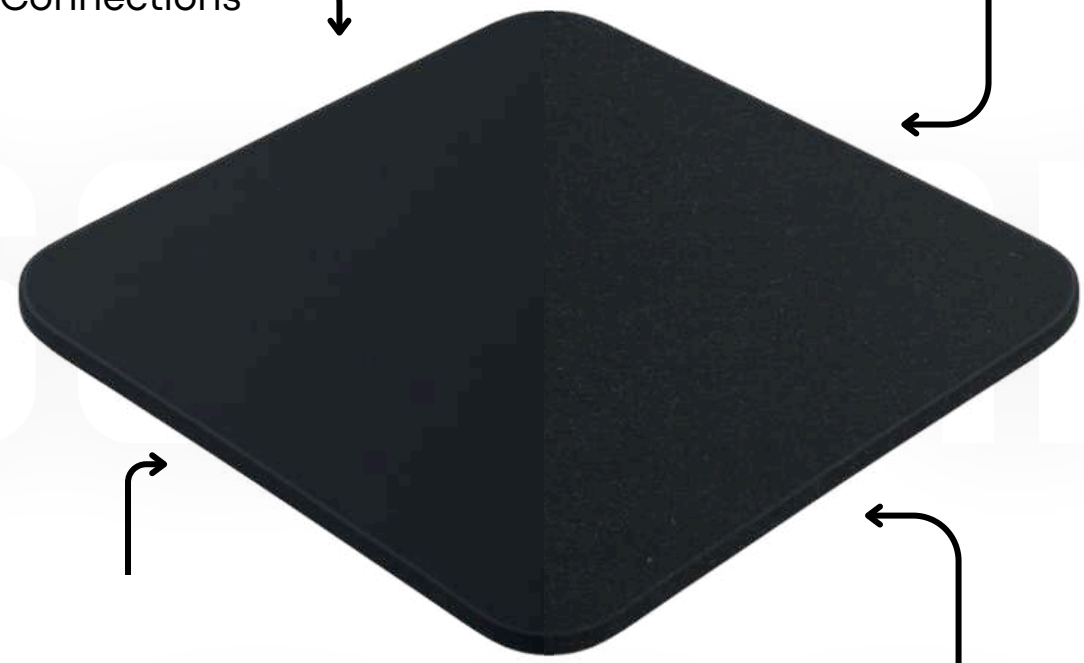
Full 3M VHB Backing



# SolaDek™

Rear or Surface
Electrical Connections

Awl-Grip Non-Slip Coating



Rear:
ALEXSEAL Premium Topcoat 501
polyurethane-based coating

Default: 1 Inline Bypass Per String

Full 3M VHB Backing

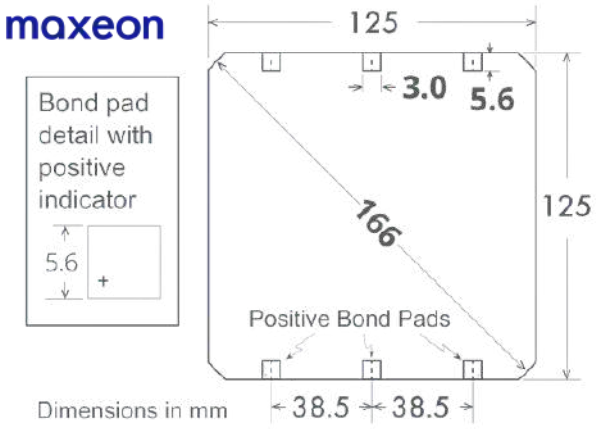
# Electrical Characteristics of typical Maxeon Gen III NE3

| Specification | Min | Max |
|---|---|---|
| **Pmpp (Wp)** | 3.78 | |
| **Efficiency** | 24.4% | |
| **Vmpp (V)** | 0.621 | 0.630 |
| **Impp (A)** | 6.05 | 6.11 |
| **Voc (V)** | 0.728 | 0.735 |
| **Isc (A)** | 6.39 | 6.43 |
| **Temp.Coeff. Pmax [%/°C]** | (-0.15%/°F) [-0.27%/°C] | |
| **Temp.Coeff.Voc (%/°F) [%/°C]** | (-0.131%/°F) [-0.236%/°C] | |
| **Temp.Coeff.Isc (%/°F) [%/°C]** | (0.032%/°F) [0.058%/°C] | |
| **Annual Cell Degradation** | 0.25% | |

Temp Coefficients in Maxeon Cells:
Voltage: -0.236%/oC, Current: 0.058%/oC, Power: -0.27%/oC

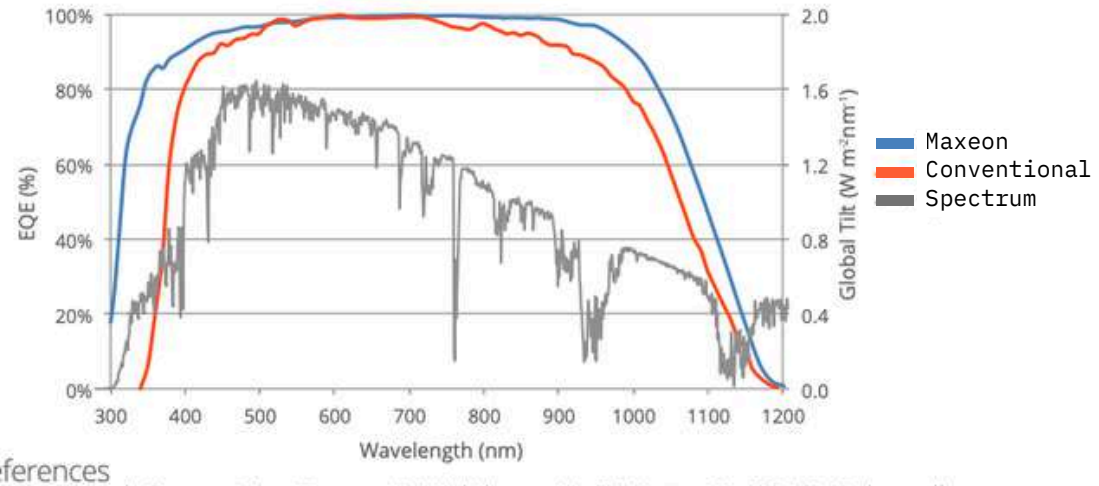
## Physical Characteristics

Wafer: Mono crystalline silicon
Design: All back contact
Front: Uniform, black antireflection coating
Back: Tin-coated, copper metal grid
Cell Area: Approximately 155cm2
Cell Weight: Approximately 6.6 grams
Cell Thickness: 150µm +/- 30µm




Bond pad area dimensions are 5.6mm x 3.0mm. Metal finger pitch between positive and negative fingers is 486um Positive/Negative pole bond pad sides have "+/-" indicators on leftmost and rightmost bond pads.

## Spectral Response




References
Conventional: Green, M.a., Emery, K., Hishikawa, Y., & Warta, W. (2010). Solar cell efficiency tables (version 36). Progress in Photovoltaics: Research and Applications, 18(5), 46-352.doi:10.1002/pip/1021
SunPower: NREL data, commissioned by SPWR."Gen C CS AR binl". 2013.
Spectrum: Standard, ASTM. " G173-03." URL: http://www.astm.org

# OPEN WATERS
SOLAR



Crack Resistant Validation
BrightSpot Automation

BRITISH COLUMBIA
Supported by

RoHS compliant

410 3rd Ave V2L 3B9, Prince George BC Canada
info@openwaterssolar.com
www.openwaterssolar.com