

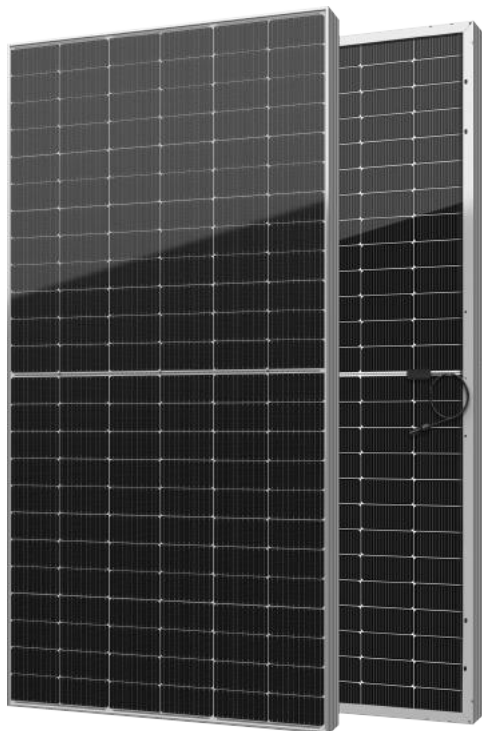


# YUKON Series

Half-Cell Bifacial Module

**540-555Wp**  
Module Power Output

**21.48%**  
Max Efficiency



## Key Features



High module conversion efficiency



Better temperature coefficient



Super multi busbar technology



Low attenuation long warranty



Superior load capacity



Higher bifaciality

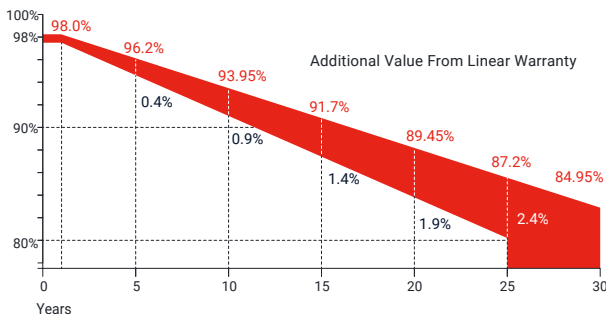


USA based liability insurance



Houston, Texas based company

## Warranty



**15** Years  
Guarantee on product material and workmanship

**30** Years  
Linear power output warranty

## Product Certification

IEC61215:2016; IEC 61730:2016; UL61215; UL61730

IEC62804

PID

IEC61701

Salt Mist

IEC62716

Ammonia Resistance

IEC60068

Dust and Sand

IEC61215

Hailstone

Fire Type (UL61730): Type 29

ISO14001:2015; ISO9001:2015; ISO45001:2018



CALIFORNIA ENERGY COMMISSION



## About SEG Solar

Founded in 2016, SEG is a leading vertically integrated PV manufacturer headquartered in Houston, Texas, U.S., and is dedicated to delivering reliable and cost-effective solar modules to the utility, commercial and residential markets. By the end of 2023, SEG has shipped over 5 GW of solar modules worldwide. The company is expected to exceed a production capacity of 5.5 GW by the end of 2024.



Download Datasheet

## Electrical Characteristics

| Module Type                   | SEG-540-BMA-BG |            |          | SEG-545-BMA-BG |            |          | SEG-550-BMA-BG |            |          | SEG-555-BMA-BG |            |          |
|-------------------------------|----------------|------------|----------|----------------|------------|----------|----------------|------------|----------|----------------|------------|----------|
|                               | Front STC      | Front NOCT | Back STC | Front STC      | Front NOCT | Back STC | Front STC      | Front NOCT | Back STC | Front STC      | Front NOCT | Back STC |
| Maximum Power -Pmp(Wp)*       | 540            | 406        | 378      | 545            | 409        | 382      | 550            | 414        | 385      | 555            | 418        | 389      |
| Open Circuit Voltage -Voc(V)  | 49.50          | 46.18      | 49.48    | 49.60          | 46.32      | 49.58    | 49.70          | 46.40      | 49.68    | 49.80          | 46.47      | 49.78    |
| Short Circuit Current -Isc(A) | 13.81          | 11.16      | 9.74     | 13.91          | 11.23      | 9.80     | 14.01          | 11.32      | 9.87     | 14.10          | 11.40      | 9.94     |
| Maximum Power Voltage -Vmp(V) | 41.55          | 38.39      | 41.61    | 41.81          | 38.41      | 41.86    | 42.07          | 38.58      | 42.10    | 42.31          | 38.75      | 42.35    |
| Maximum Power Current -Imp(A) | 13.00          | 10.59      | 9.09     | 13.04          | 10.65      | 9.13     | 13.08          | 10.73      | 9.15     | 13.12          | 10.79      | 9.19     |
| Module Efficiency(%)          | 20.90          |            |          | 21.10          |            |          | 21.29          |            |          | 21.48          |            |          |
| Power Tolerance(W)            |                |            |          |                |            |          | (0, +4.99)     |            |          |                |            |          |
| Maximum System Voltage        |                |            |          |                |            |          | 1500V DC       |            |          |                |            |          |
| Maximum Series Fuse Rating    |                |            |          |                |            |          | 30 A           |            |          |                |            |          |
| Bifaciality                   |                |            |          |                |            |          | 70±10%         |            |          |                |            |          |

STC: Irradiance 1000 W/m<sup>2</sup> module temperature 25°C AM=1.5

NOCT: Irradiance 800W/m<sup>2</sup> ambient temperature 20°C module temperature 45°C wind speed: 1m/s

\*Measuring tolerance: ±3%

## Mechanical Specifications

|                        |   |
|------------------------|---|
| External Dimension     | 2278 x 1134 x 30 mm   |
| Weight                 | 32.0 kg   |
| Solar Cells            | PERC Mono 182 x 91 mm(144 pcs)  |
| Front Glass            | 2.0 mm AR coating semi-tempered glass   |
| Back Glass             | 2.0 mm Semi-tempered glass  |
| Frame                  | Anodized aluminium alloy  |
| Junction Box           | IP68 / 3 diodes   |
| Connector Type         | PV-C002-xy or MC4   |
| Cable Type             | 12 AWG PV Wire(UL)  |
| Cable Length           | Portrait: 400 mm(+)/ 200 mm(-)<br>Landscape: 1200 mm(+)/ 1200 mm(-)<br>or customized length |
| Mechanical Load(Front) | 5400 Pa / 113 psf*  |
| Mechanical Load(Rear)  | 3600 Pa / 75 psf*   |

\*Refer to SEG installation manual for details

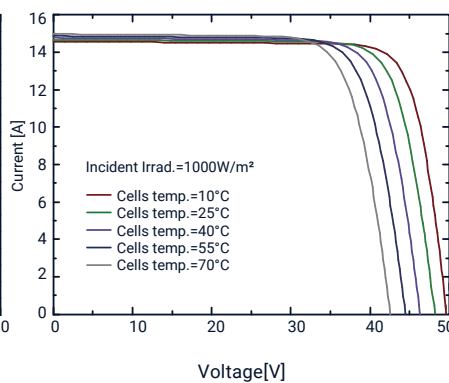
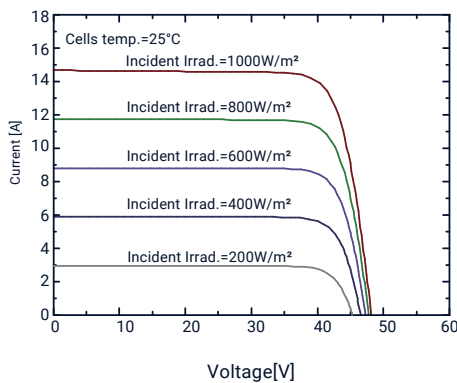
## Temperature Characteristics

|   |            |
|---|------------|
| Pmax Temperature Coefficient              | -0.35 %/°C |
| Voc Temperature Coefficient               | -0.27 %/°C |
| Isc Temperature Coefficient               | +0.05 %/°C |
| Operating Temperature                     | -40~+85 °C |
| Nominal Operating Cell Temperature (NOCT) | 45±2 °C    |

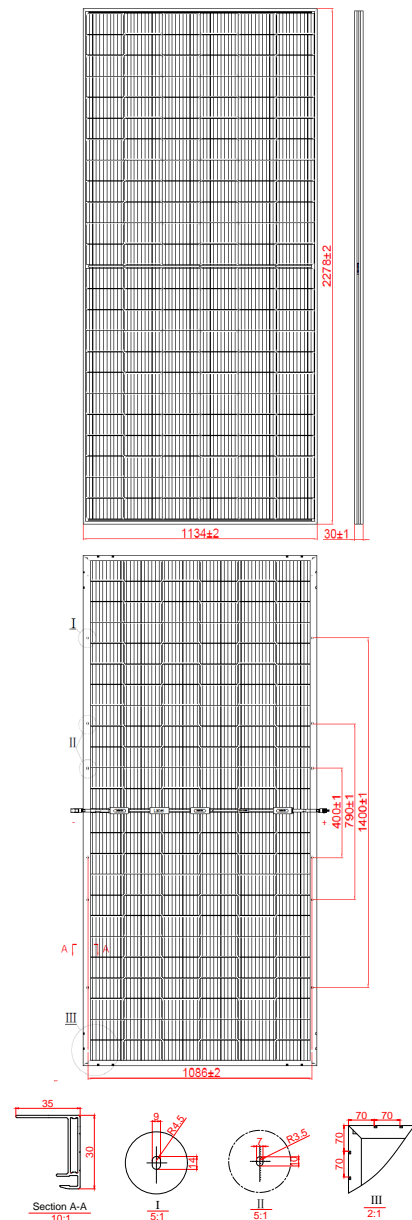
## Packing Configuration

| Container             | 20'GP | 40'HQ | 40'HQ<br>(For USA) |
|-----------------------|-------|-------|--------------------|
| Pieces per Pallet     | 36    | 36    | 36                 |
| Pallets per Container | 4     | 20    | 16                 |
| Pieces per Container  | 144   | 720   | 576                |

## I-V Curve



## Technical Drawing



\*Refer to SEG installation manual for details