



# YUKON Series

Half-Cell Bifacial Module

**445-460Wp** | **21.25%**  
Module Power Output | Max Efficiency



## Key Features



High module conversion efficiency



Better temperature coefficient



Super multi busbar technology



Low attenuation long warranty



Superior load capacity



Higher bifaciality

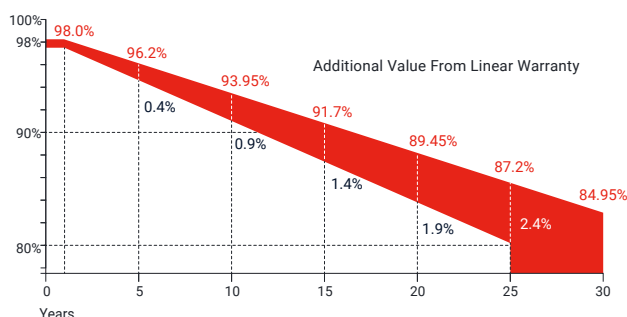


USA based liability insurance



Houston, Texas based company

## Warranty



**15**  
Years

Guarantee on product material and workmanship

**30**  
Years

Linear power output warranty

## Product Certification

IEC61215; IEC61730; 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-445-BMB-BG |            |          | SEG-450-BMB-BG |            |            | SEG-455-BMB-BG |            |          | SEG-460-BMB-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)*       | 445            | 333        | 312      | 450            | 337        | 315        | 455            | 341        | 319      | 460            | 345        | 322      |
| Open Circuit Voltage -Voc(V)  | 41.22          | 38.41      | 41.20    | 41.32          | 38.57      | 41.30      | 41.42          | 38.67      | 41.40    | 41.52          | 38.77      | 41.50    |
| Short Circuit Current -Isc(A) | 13.66          | 11.04      | 9.63     | 13.76          | 11.12      | 9.70       | 13.86          | 11.20      | 9.77     | 13.96          | 11.28      | 9.84     |
| Maximum Power Voltage -Vmp(V) | 34.18          | 31.82      | 34.22    | 34.28          | 31.98      | 34.29      | 34.39          | 32.06      | 34.42    | 34.49          | 32.18      | 34.49    |
| Maximum Power Current -Imp(A) | 13.03          | 10.48      | 9.12     | 13.13          | 10.56      | 9.19       | 13.24          | 10.64      | 9.27     | 13.34          | 10.73      | 9.34     |
| Module Efficiency(%)          | 20.56          |            |          | 20.79          |            |            | 21.02          |            |          | 21.25          |            |          |
| 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     | 1909 x 1134 x 30 mm                                                                           |
| Weight                 | 27.3 kg                                                                                       |
| Solar Cells            | PERC Mono 120 pcs(60 x 2)                                                                     |
| 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)  | 2400 Pa / 50 psf*                                                                             |

\*Refer to SEG installation manual for details

## Temperature Characteristics

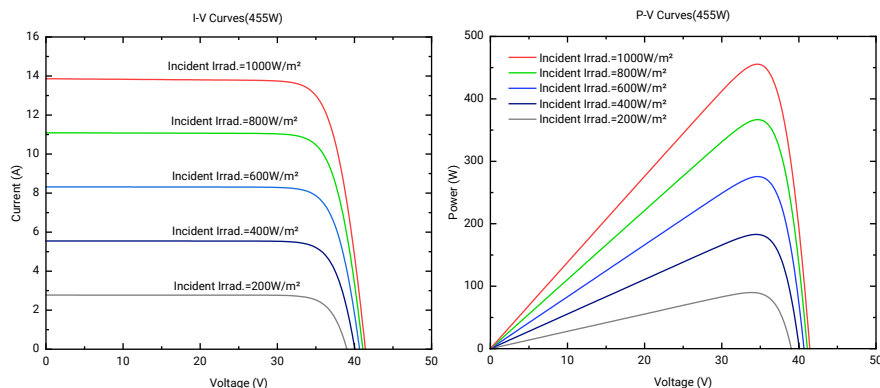
|                                           |            |
|-------------------------------------------|------------|
| Pmax Temperature Coefficient              | -0.35 %/°C |
| Voc Temperature Coefficient               | -0.27 %/°C |
| Isc Temperature Coefficient               | +0.05 %/°C |
| Operating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

## Packing Configuration

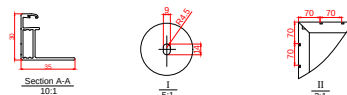
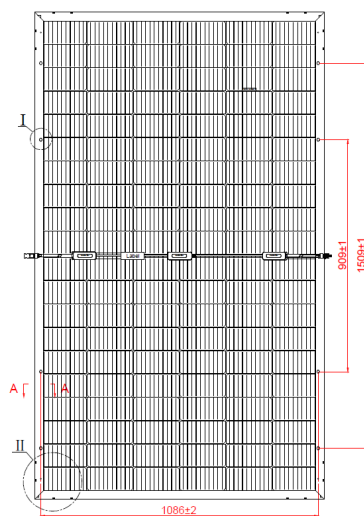
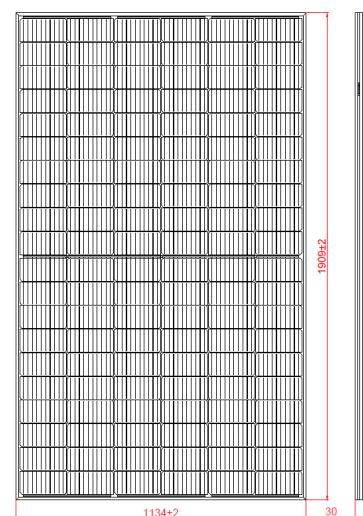
|                       |       |       |
|-----------------------|-------|-------|
| Container*            | 20'GP | 40'HQ |
| Pieces per Pallet     | 36    | 36    |
| Pallets per Container | 5     | 24    |
| Pieces per Container  | 180   | 864   |

\*Refer to the SEG container technical documentation for 53' box trailer or other trucks loading quantity

## Curves of PV Module



## Technical Drawing



\*Refer to SEG installation manual for details