

# YUKON Series

Half-Cell  
Transparent Backsheet Module

**400-415Wp** | **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 bifacially

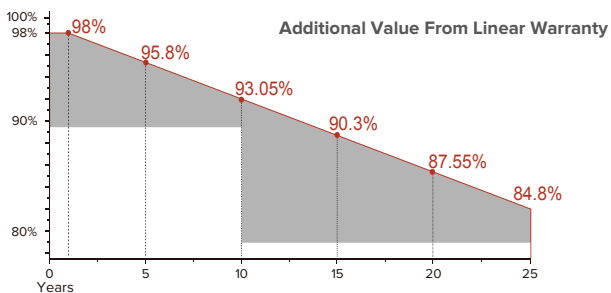


USA based liability insurance



Houston, Texas based company

## Warranty



**25** <Years> Guarantee on product material and workmanship

**25** <Years> Linear power output warranty

## Product Certification

IEC61215:2016; IEC 61730:2016; UL61730

IEC62804 PID

IEC61701 Salt Mist

IEC62716 Ammonia Resistance

IEC60068 Dust and Sand

IEC61215 Hailstone

Fire Type (UL61730):Type1

ISO14001:2015; ISO9001:2015; ISO45001:2018



## About SEG Solar

SEG Solar is a leading manufacturer of high-performance solar panels for residential, commercial, and utility applications. The company, headquartered in Houston, Texas, is committed to providing cost-effective and reliable solar solutions that help customers reduce their energy costs and carbon footprint.



Download Datasheet

### Electrical Characteristics

| Module Type                   | SEG-400-BMD-TB |            |          | SEG-405-BMD-TB |            |          | SEG-410-BMD-TB |            |          | SEG-415-BMD-TB |            |          |
|-------------------------------|----------------|------------|----------|----------------|------------|----------|----------------|------------|----------|----------------|------------|----------|
|                               | 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)*       | 400            | 301        | 280      | 405            | 304        | 284      | 410            | 308        | 287      | 415            | 311        | 291      |
| Open Circuit Voltage -Voc(V)  | 37.12          | 34.64      | 37.10    | 37.22          | 34.73      | 37.20    | 37.32          | 34.81      | 37.30    | 37.42          | 34.90      | 37.40    |
| Short Circuit Current -Isc(A) | 13.60          | 10.99      | 9.59     | 13.70          | 11.07      | 9.66     | 13.80          | 11.15      | 9.73     | 13.90          | 11.23      | 9.80     |
| Maximum Power Voltage -Vmp(V) | 30.81          | 28.82      | 30.80    | 30.93          | 28.91      | 30.98    | 31.05          | 29.05      | 31.03    | 31.17          | 29.19      | 31.17    |
| Maximum Power Current -Imp(A) | 12.99          | 10.44      | 9.10     | 13.10          | 10.51      | 9.17     | 13.21          | 10.59      | 9.25     | 13.32          | 10.66      | 9.34     |
| Module Efficiency(%)          | 20.48          |            |          | 20.74          |            |          | 21.00          |            |          | 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

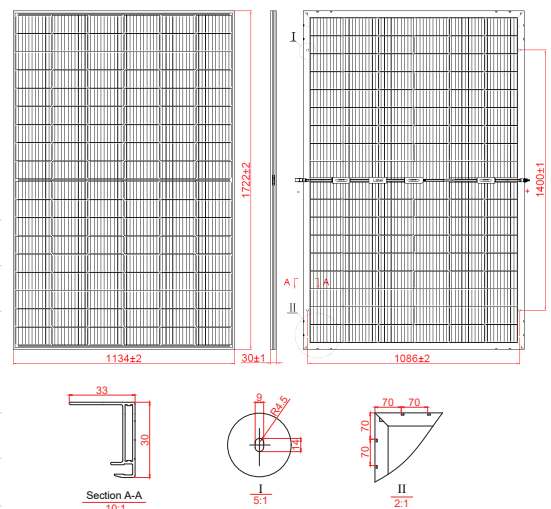
\*Measuring tolerance: ±3%

### Mechanical Specifications

|                        |   |
|------------------------|---|
| External Dimension     | 1722 x 1134 x 30 mm   |
| Weight                 | 21.5 kg   |
| Solar Cells            | PERC Mono 182 x 91mm(108 pcs)   |
| Front Glass            | 3.2 mm AR coating tempered glass  |
| Frame                  | Black anodized aluminium alloy  |
| Junction Box           | IP68 / 3 diodes   |
| Connector Type         | PV-CO02-xy / 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

### Technical Drawing



\*Refer to SEG installation Manual for details

### Packing Configuration

|                       |       |       |
|-----------------------|-------|-------|
| Container             | 20'GP | 40'HQ |
| Pieces per Pallet     | 36    | 36    |
| Pallets per Container | 6     | 24    |
| Pieces per Container  | 216   | 864   |

### 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    |

### I-V Curve

