

YUKON Series

Half-Cell
Transparent Backsheet Module

540-555W
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 bifacially

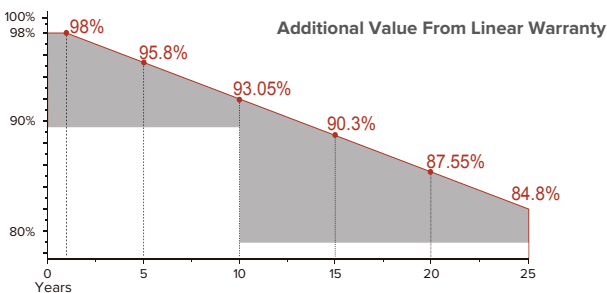


USA based liability insurance



Houston, Texas based company

Warranty



15 <Years> Guarantee on product material and workmanship

25 <Years> Linear power output warranty

Product Certification

IEC61215:2016; IEC 61730:2016; UL1703; UL61730/ETL/CEC

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-540-BMA-TB | | | SEG-545-BMA-TB | | | SEG-550-BMA-TB | | | SEG-555-BMA-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(W) | 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 | 13.90 | 11.23 | 9.80 | 14.00 | 11.32 | 9.87 | 14.10 | 11.40 | 9.94 |
| Maximum Power Voltage -Vmp(V) | 41.55 | 38.39 | 41.61 | 41.80 | 38.41 | 41.86 | 42.05 | 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 STC-ηm(%) | 20.90 | | | 21.10 | | | 21.29 | | | 21.48 | | |
| Power Tolerance(W) | | | | | | | (0, +3%) | | | | | |
| Maximum System Voltage | | | | | | | 1500V DC | | | | | |
| Maximum Series Fuse Rating | | | | | | | 25 A | | | | | |

 STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5

 NOCT: Irradiance 800W/m² ambient temperature 20°C module temperature 45°C wind speed: 1m/s

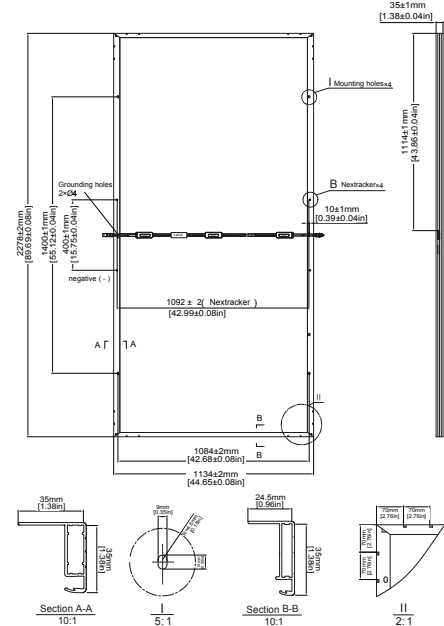
Power measurement tolerance: +/-3%

Mechanical Specifications

| | |
|------------------------|---|
| External Dimension | 2278 x 1134 x 35 mm |
| Weight | 27.0 kg |
| Solar Cells | PERC Mono 182 x 91mm(144 pcs) |
| Front Glass | 3.2 / mm AR coating tempered glass / low iron |
| Frame | Anodized aluminium alloy |
| Junction Box | IP68 / 3 diodes |
| Connector Type | QC4.10 |
| Cable Type / Length | 12 AWG PV Wire (UL) /1200 mm |
| Mechanical Load(Front) | 5400 Pa / 113 psf* |
| Mechanical Load(Rear) | 3600 Pa / 75 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 | 31 | 31 |
| Pallets per Container | 4 | 20 |
| Pieces per Container | 124 | 620 |

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

