



YUKON Series

Half-Cell Monofacial Module

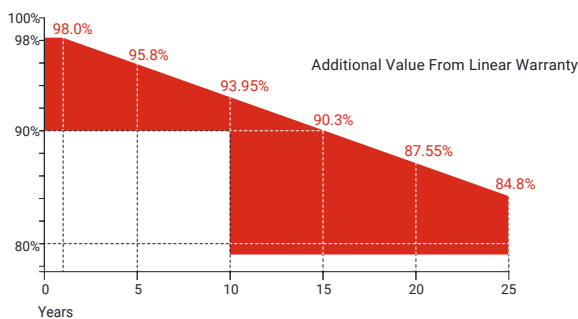
540-555Wp | **21.48%**
Module Power Output | Max Efficiency



Key Features

- High module conversion efficiency
- Better temperature coefficient
- Super multi busbar technology
- Low attenuation long warranty
- Superior load capacity
- Aesthetic appearance
- 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; IEC61730; UL61730 | |
| IEC62804 | PID |
| IEC61701 | Salt Mist |
| IEC62716 | Ammonia Resistance |
| IEC60068 | Dust and Sand |
| IEC61215 | Hailstone |
| Fire Type (UL61730): Type 1 | |
| ISO14001:2015; ISO9001:2015; ISO45001:2018 | |



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-HV | | SEG-545-BMA-HV | | SEG-550-BMA-HV | | SEG-555-BMA-HV | |
|-------------------------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|
| | Front STC | Front NOCT | Front STC | Front NOCT | Front STC | Front NOCT | Front STC | Front NOCT |
| Maximum Power -Pmp(Wp)* | 540 | 406 | 545 | 409 | 550 | 414 | 555 | 418 |
| Open Circuit Voltage -Voc(V) | 49.50 | 46.18 | 49.60 | 46.32 | 49.70 | 46.40 | 49.80 | 46.50 |
| Short Circuit Current -Isc(A) | 13.81 | 11.16 | 13.91 | 11.23 | 14.01 | 11.32 | 14.10 | 11.41 |
| Maximum Power Voltage -Vmp(V) | 41.55 | 38.39 | 41.81 | 38.41 | 42.07 | 38.58 | 42.31 | 38.68 |
| Maximum Power Current -Imp(A) | 13.00 | 10.59 | 13.04 | 10.65 | 13.08 | 10.73 | 13.12 | 10.81 |
| 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 | | | | | 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

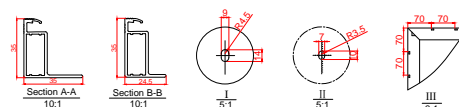
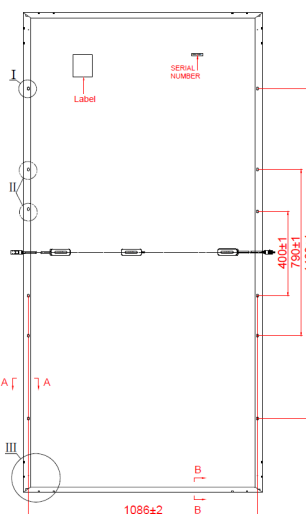
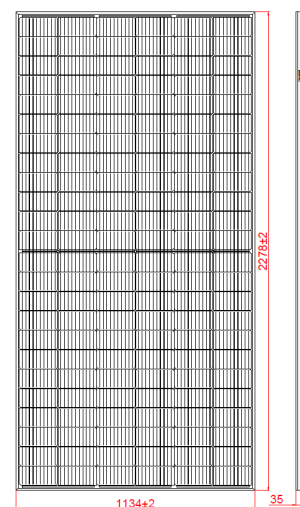
*Measuring tolerance: ±3%

Mechanical Specifications

| | |
|------------------------|---|
| External Dimension | 2278 x 1134 x 35 mm |
| Weight | 27.0 kg |
| Solar Cells | PERC Mono 144 pcs(72 x 2) |
| Front Glass | 3.2 mm AR coating 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(-) Landscape: 1200 mm(+) / 1200 mm(-) 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

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 | 31 | 31 |
| Pallets per Container | 4 | 20 |
| Pieces per Container | 124 | 620 |

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

Curves of PV Module

