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# ALPINE Series

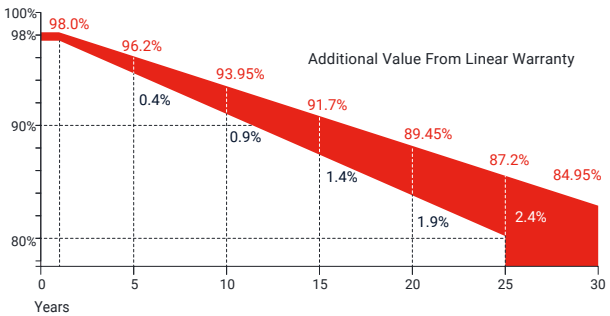
Half-Cell Bifacial Module

**655-670Wp** Module Power Output | **21.57%** 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 | |

Intertek · PV CYCLE · CE · TÜV SÜD · DEKRA · CALIFORNIA ENERGY COMMISSION · FSEC

### 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 2024, SEG had shipped over 6 GW of solar modules worldwide and have achieved a module production capacity of 6 GW.

Download Datasheet

# ALPINE Series SEG-XXX-BMC-BG 132Cells

## Electrical Characteristics

| Module Type | SEG-655-BMC-BG | | | SEG-660-BMC-BG | | | SEG-665-BMC-BG | | | SEG-670-BMC-BG | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | STC | NOCT | BNPI | STC | NOCT | BNPI | STC | NOCT | BNPI | STC | NOCT | BNPI |
| Maximum Power -Pmp(Wp)* | 655 | 492 | 717 | 660 | 496 | 722 | 665 | 500 | 728 | 670 | 504 | 733 |
| Open Circuit Voltage -Voc(V) | 45.68 | 43.40 | 45.68 | 45.88 | 43.59 | 45.88 | 46.08 | 43.78 | 46.08 | 46.28 | 43.97 | 46.28 |
| Short Circuit Current -Isc(A) | 18.39 | 14.71 | 20.13 | 18.44 | 14.75 | 20.18 | 18.49 | 14.79 | 20.24 | 18.54 | 14.83 | 20.29 |
| Maximum Power Voltage -Vmp(V) | 37.96 | 35.65 | 37.96 | 38.16 | 35.86 | 38.16 | 38.36 | 36.06 | 38.36 | 38.56 | 36.27 | 38.56 |
| Maximum Power Current -Imp(A) | 17.25 | 13.80 | 18.88 | 17.29 | 13.83 | 18.92 | 17.33 | 13.86 | 18.97 | 17.37 | 13.90 | 19.01 |
| Module Efficiency(%) | | 21.09 | | | 21.25 | | | 21.41 | | | 21.57 | |
| Power Tolerance(W) | (0, +4.99) | | | | | | | | | | | |
| Maximum System Voltage | 1500V DC | | | | | | | | | | | |
| Maximum Series Fuse Rating | 35 A | | | | | | | | | | | |
| Bifaciality | 70±10% | | | | | | | | | | | |

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5
*Measuring tolerance: ±3%

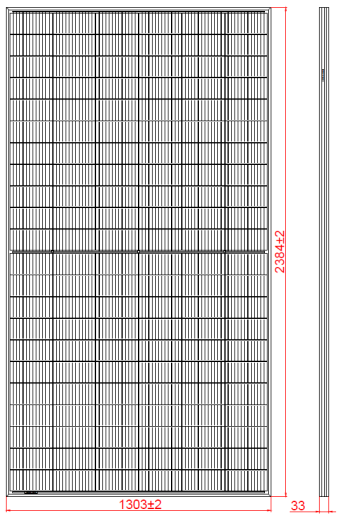
NOCT: Irradiance 800W/m² ambient temperature 20°C module temperature 45°C wind speed: 1m/s
BNPI: Front irradiance 1000W/m², Rear irradiance 135W/m²

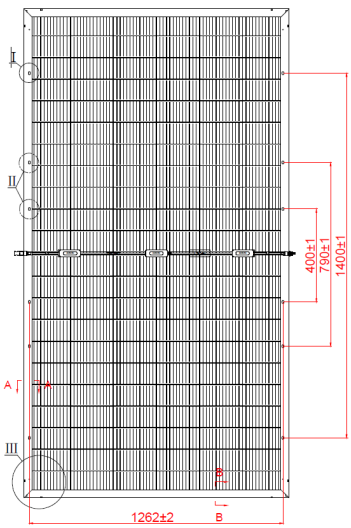
## Mechanical Specifications

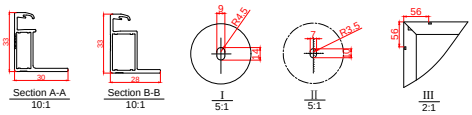
| | |
|---|---|
| External Dimension | 2384 x 1303 x 33 mm |
| Weight | 38.5 kg |
| Solar Cells | PERC Mono-crystalline 132 pcs(66 x 2) |
| Front Glass | 2.0 mm AR coating heat strengthened glass |
| Back Glass | 2.0 mm heat strengthened glass |
| Frame | Anodized aluminium alloy |
| Junction Box | IP68 / 3 diodes |
| Connector Type | MC4 or others |
| Cable Type | 12 AWG PV Wire(UL) |
| Cable Length | 400 mm(+), 200 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* | 40'HQ | 40'HQ (For USA) |
|---|---|---|
| Pieces per Pallet | 31 | 31 |
| Pallets per Container | 18 | 16 |
| Pieces per Container | 558 | 496 |

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

## Curves of PV Module