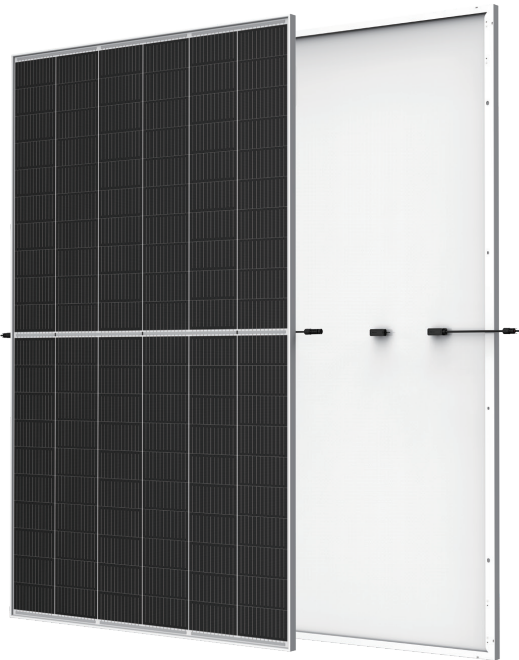


# ALPINE Series

Half-Cell Monofacial Module

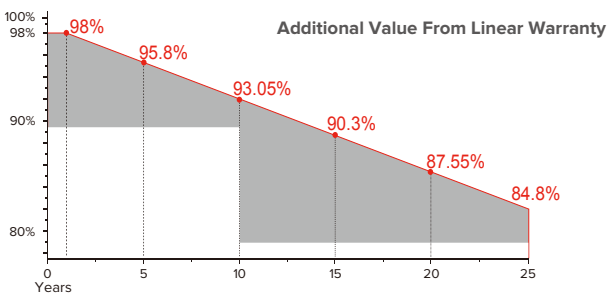
**595-610Wp** | **21.55%**  
Module Power Output | Max Efficiency



## 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

IEC61215:2016; IEC 61730:2016; UL1703; 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-595-BMB-HV		SEG-600-BMB-HV		SEG-605-BMB-HV		SEG-610-BMB-HV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power -Pmp(Wp)	595	446	600	450	605	454	610	458
Open Circuit Voltage -Voc(V)	41.49	39.42	41.69	39.61	41.89	39.80	42.09	39.99
Short Circuit Current -Isc(A)	18.34	14.67	18.40	14.72	18.46	14.77	18.62	14.82
Maximum Power Voltage -Vmp(V)	34.38	32.22	34.58	32.40	34.78	32.58	34.98	32.75
Maximum Power Current -Imp(A)	17.31	13.85	17.36	13.89	17.41	13.93	17.46	13.97
Module Efficiency(%)	21.02		21.20		21.38		21.55	
Power Tolerance	(0, +3%)							
Maximum System Voltage	1500V DC							
Maximum Series Fuse Rating	30A							

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

## Mechanical Specifications

External Dimension	2172 x 1303 x 35 mm
Weight	31.0 kg
Solar Cells	PERC Mono 210 x 105mm(120 pcs)
Front Glass	3.2 / mm AR coating tempered glass / low iron
Frame	Anodized aluminium alloy
Junction Box	IP68 / 3 diodes
Connector Type	PV-CO02-xy
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

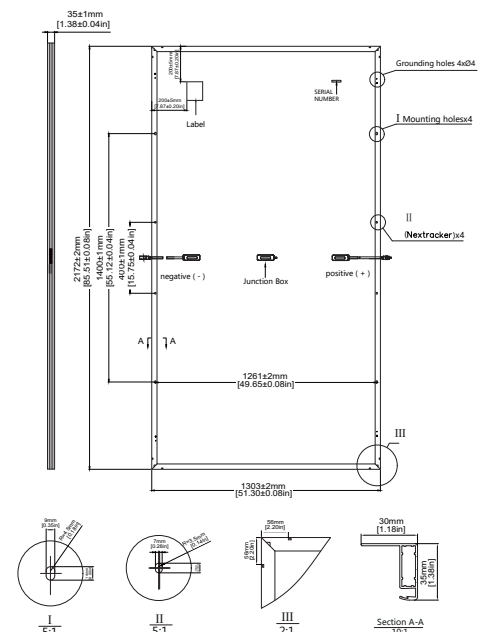
## Packing Configuration

Container	40'HQ
Pieces per Pallet	31
Pallets per Container	17
Pieces per Container	527

## Temperature Characteristics

Pmax Temperature Coefficient	-0.34 %/°C
Voc Temperature Coefficient	-0.25 %/°C
Isc Temperature Coefficient	+0.04 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C

## Technical Drawing



\*Refer to SEG installation Manual for details

## I-V Curve

