



# ALPINE Series

Half-Cell Monofacial Module

**655-670Wp**  
Module Power Output

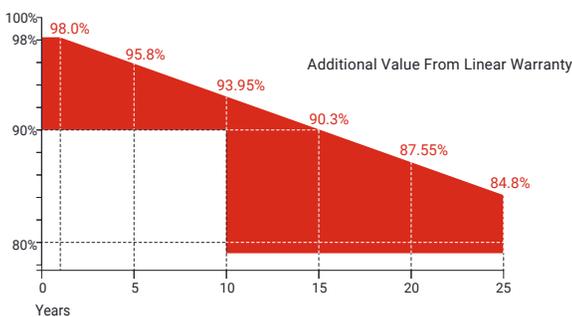
**21.57%**  
Max Efficiency



## Key Features

-  High module conversion efficiency
-  Better temperature coefficient
-  Super multi busbar technology
-  Low attenuation long warranty
-  Superior load capacity
-  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 2024, SEG had shipped over 6 GW of solar modules worldwide and have achieved a module production capacity of 6 GW.



Download Datasheet

## Electrical Characteristics

Module Type	SEG-655-BMC-HV		SEG-660-BMC-HV		SEG-665-BMC-HV		SEG-670-BMC-HV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power -Pmp(Wp)*	655	492	660	496	665	500	670	504
Open Circuit Voltage -Voc(V)	45.68	43.40	45.88	43.59	46.08	43.78	46.28	43.97
Short Circuit Current -Isc(A)	18.39	14.71	18.44	14.75	18.49	14.79	18.54	14.83
Maximum Power Voltage -Vmp(V)	37.96	35.65	38.16	35.86	38.36	36.06	38.56	36.27
Maximum Power Current -Imp(A)	17.25	13.80	17.29	13.83	17.33	13.86	17.37	13.90
Module Efficiency(%)	20.09		21.25		21.41		21.57	
Power Tolerance(W)					(0, +4.99)			
Maximum System Voltage					1500V DC			
Maximum Series Fuse Rating					30 A			

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

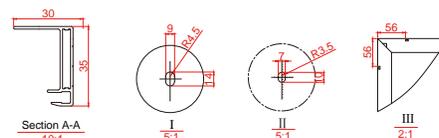
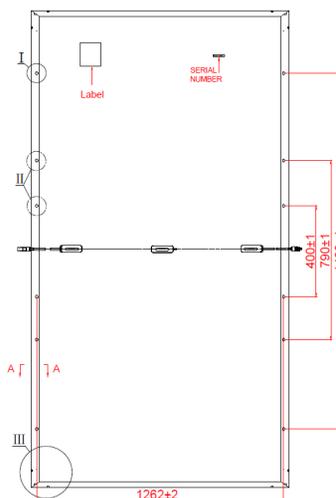
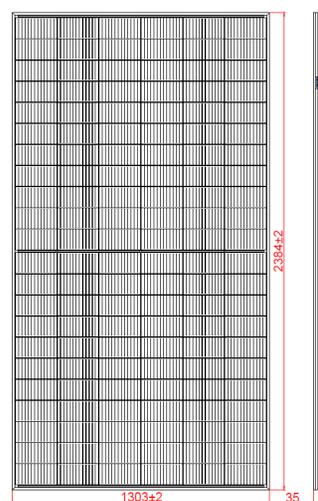
\*Measuring tolerance: ±3%

## Mechanical Specifications

External Dimension	2384 x 1303 x 35 mm
Weight	34.0 kg
Solar Cells	PERC Mono-crystalline 132 pcs(66 x 2)
Front Glass	3.2 mm AR coating tempered 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
Pieces per Pallet	31
Pallets per Container	18
Pieces per Container	558

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

## Curves of PV Module

