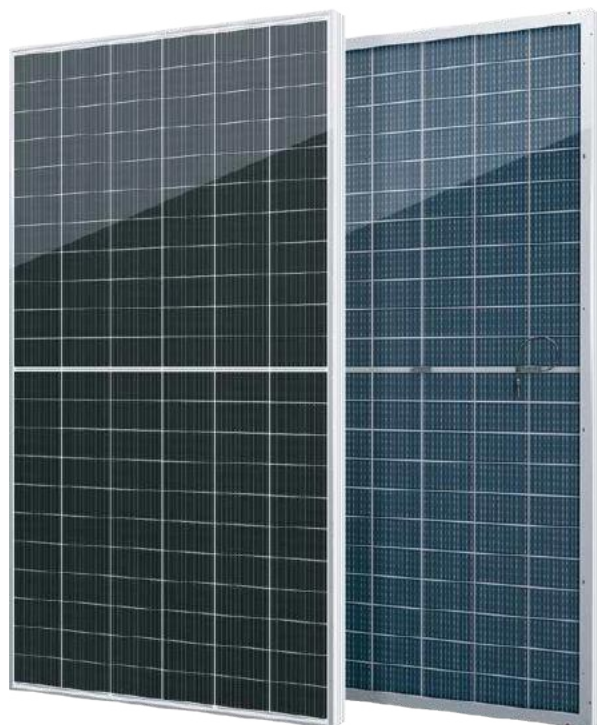




ALPINE N Series

Half-Cell N-Type Bifacial Module

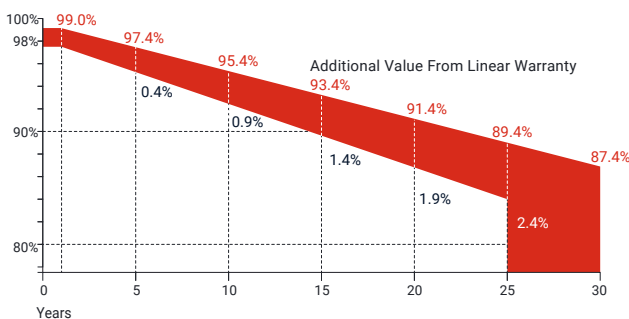
605-620Wp | **22.95%**
 Module Power Output | Max Efficiency



Key Features

-  High module conversion efficiency
-  Better temperature coefficient
-  Super multi busbar technology
-  Low attenuation long warranty
-  Superior load capacity
-  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

IEC61215:2016; IEC 61730:2016; 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	
	
	
	
	

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-605-BTC-BG			SEG-610-BTC-BG			SEG-615-BTC-BG			SEG-620-BTC-BG		
	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(Wp)*	605	461	484	610	465	488	615	469	492	620	473	496
Open Circuit Voltage -Voc(V)	47.90	46.10	47.88	48.10	46.40	48.08	48.30	46.72	48.28	48.50	47.04	48.48
Short Circuit Current -Isc(A)	16.00	12.76	12.76	16.05	12.78	12.78	16.10	12.80	12.80	16.13	12.82	12.82
Maximum Power Voltage -Vmp(V)	39.60	38.00	39.58	39.77	38.30	39.75	39.96	38.60	39.94	40.21	38.90	40.19
Maximum Power Current -Imp(A)	15.28	12.13	12.23	15.34	12.14	12.28	15.39	12.15	12.32	15.42	12.16	12.34
Module Efficiency(%)	22.40			22.58			22.77			22.95		
Power Tolerance(W)							(0, +4.99)					
Maximum System Voltage							1500V DC					
Maximum Series Fuse Rating							35 A					
Bifaciality							80±10%					

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

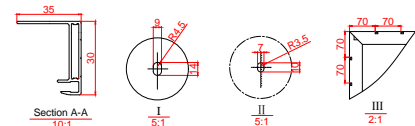
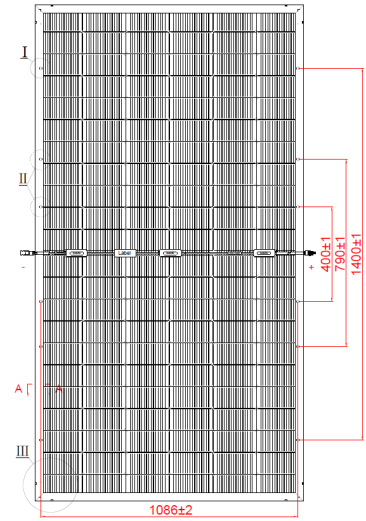
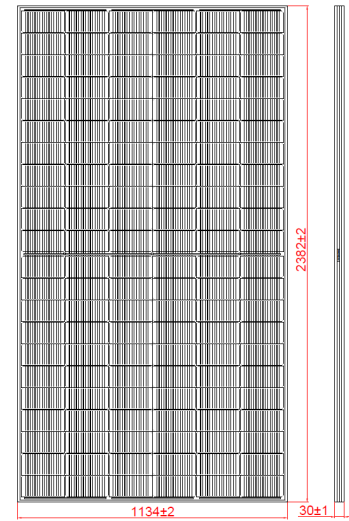
*Measuring tolerance: ±3%

Mechanical Specifications

External Dimension	2382 x 1134 x 30 mm
Weight	33.1 kg
Solar Cells	N-Type 182 x 105 mm(132 pcs)
Front Glass	2.0 mm AR coating semi-tempered glass
Back Glass	2.0 mm Semi-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	-0.30 %/°C
Voc Temperature Coefficient	-0.25 %/°C
Isc Temperature Coefficient	+0.046 %/°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	36	36
Pallets per Container	20	16
Pieces per Container	720	576

I-V Curve

