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ALPINE Series

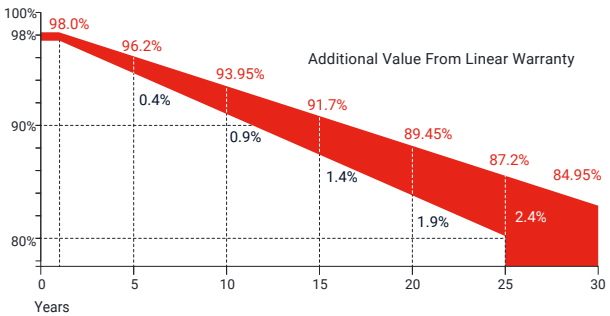
Half-Cell Bifacial Module

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%

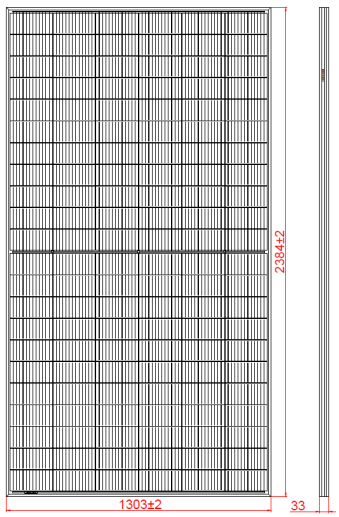
NOCT: Irradiance 800W/m² ambient temperature 20°C module temperature 45°C wind speed: 1m/s
BNPI: Front irradiance 1000W/m², Rear irradiance 135W/m²

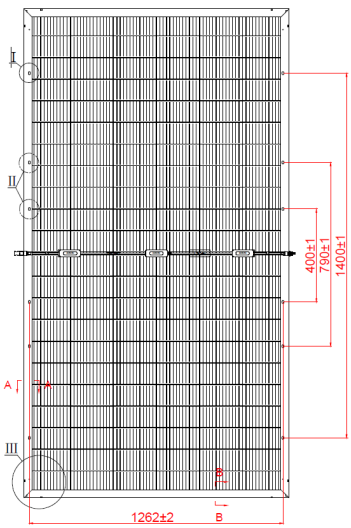
Mechanical Specifications

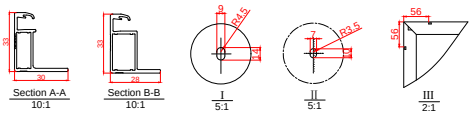
External Dimension	2384 x 1303 x 33 mm
Weight	38.5 kg
Solar Cells	PERC Mono-crystalline 132 pcs(66 x 2)
Front Glass	2.0 mm AR coating heat strengthened glass
Back Glass	2.0 mm heat strengthened glass
Frame	Anodized aluminium alloy
Junction Box	IP68 / 3 diodes
Connector Type	MC4 or others
Cable Type	12 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
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