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YUKON Series

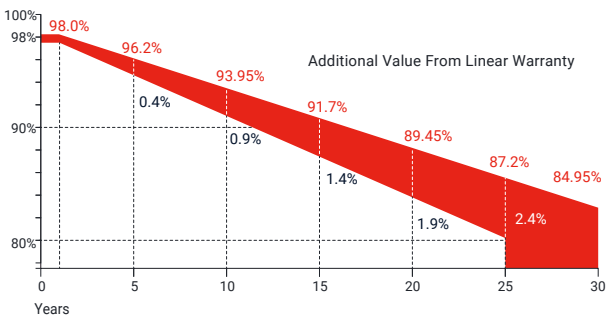
Black Diamond Half-Cell Bifacial Module

400-415Wp Module Power Output | **21.25%** 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



30 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

YUKON Series SEG-XXX-BMD-BG 108Cells

Electrical Characteristics

Module Type	SEG-400-BMD-BG			SEG-405-BMD-BG			SEG-410-BMD-BG			SEG-415-BMD-BG		
	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
Maximum Power -Pmp(Wp)*	4OO	301	438	405	304	443	410	308	449	415	311	454
Open Circuit Voltage -Voc(V)	37.12	36.64	37.12	37.22	34.73	37.22	37.32	34.81	37.32	37.42	34.90	37.42
Short Circuit Current -Isc(A)	13.60	10.99	14.89	13.70	11.07	14.99	13.80	11.15	15.10	13.90	11.23	15.21
Maximum Power Voltage -Vmp(V)	30.81	28.82	30.81	30.93	28.91	30.93	31.05	29.05	31.05	31.17	29.19	31.17
Maximum Power Current -Imp(A)	12.99	10.44	14.22	13.10	10.51	14.34	13.21	10.59	14.46	13.32	10.66	14.58
Module Efficiency(%)		20.48			20.74			21.00			21.25	
Power Tolerance(W)	(0, +4.99)											
Maximum System Voltage	1500V DC											
Maximum Series Fuse Rating	30 A											
Bifaciality	70±10%											

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

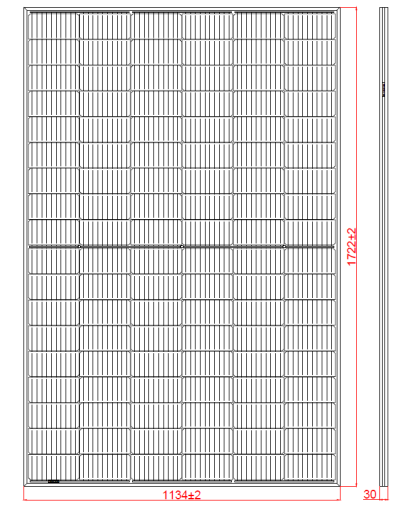
NOCT: Irradiance 800W/m² ambient temperature 20°C module temperature 45°C wind speed: 1m/s
BNPI: Front irradiance 1000W/m², Rear irradiance 135W/m²

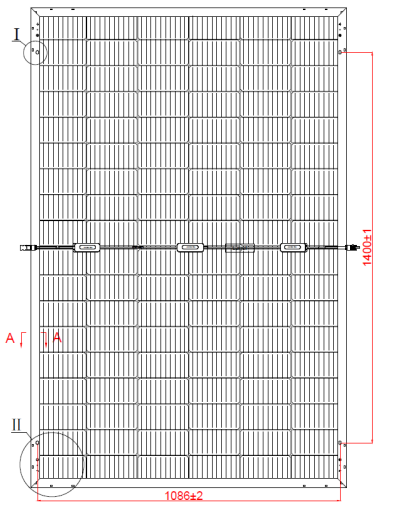
Mechanical Specifications

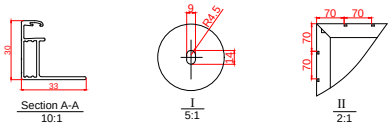
External Dimension	1722 x 1134 x 30 mm
Weight	24.0 kg
Solar Cells	PERC Mono-crystalline 108 pcs(54 x 2)
Front Glass	2.0 mm AR coating heat strengthened glass
Back Glass	2.0 mm heat strengthened glass
Frame	Black anodized aluminium alloy
Junction Box	IP68 / 3 diodes
Connector Type	MC4
Cable Type Cable Length	12 AWG PV Wire(UL) 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	-0.30 %/°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	20'GP	40'HQ	40'HQ (For USA)	53' Trailer*
Pieces per Pallet	36	36	36	36
Pallets per Container	6	26	22	22
Pieces per Container	216	936	792	792

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

Curves of PV Module