www.segsolar.com

YUKON Series

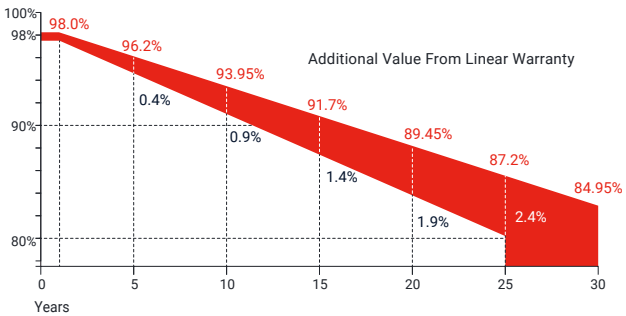
Half-Cell Bifacial Module

445-460Wp 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



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

YUKON Series SEG-XXX-BMB-BG 120Cells

Electrical Characteristics

Module Type	SEG-445-BMB-BG			SEG-450-BMB-BG			SEG-455-BMB-BG			SEG-460-BMB-BG		
	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
Maximum Power -Pmp(Wp)*	445	333	487	450	337	493	455	341	498	460	345	503
Open Circuit Voltage -Voc(V)	41.22	38.41	41.22	41.32	38.57	41.32	41.42	38.67	41.42	41.52	38.77	41.52
Short Circuit Current -Isc(A)	13.66	11.04	14.95	13.76	11.12	15.06	13.86	11.20	15.17	13.96	11.28	15.28
Maximum Power Voltage -Vmp(V)	34.18	31.82	34.18	34.28	31.98	34.28	34.39	32.06	34.39	34.49	32.18	34.49
Maximum Power Current -Imp(A)	13.03	10.48	14.26	13.13	10.56	14.37	13.24	10.64	14.49	13.34	10.73	14.60
Module Efficiency(%)		20.56			20.79			21.02			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%

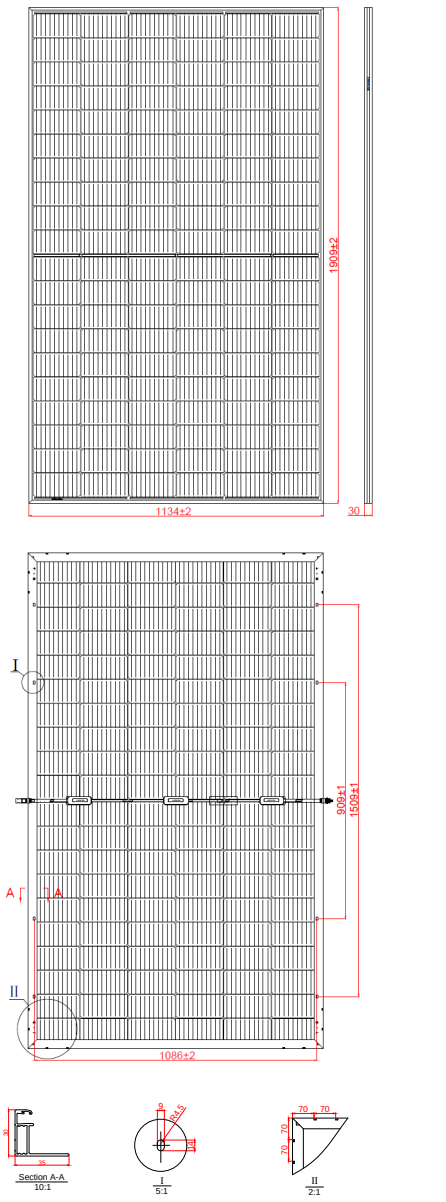
NOCT: Irradiance 800W/m² ambient temperature 20°C module temperature 45°C wind speed: 1m/s
BNPI: Front irradiance 1000W/m², Rear irradiance 135W/m²

Mechanical Specifications

External Dimension	1909 x 1134 x 30 mm
Weight	27.3 kg
Solar Cells	PERC Mono-crystalline 120 pcs(60 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 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	5	24	19	19
Pieces per Container	180	864	684	684

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

Curves of PV Module