



YUKON Series

Half-Cell Transperant Backsheet 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

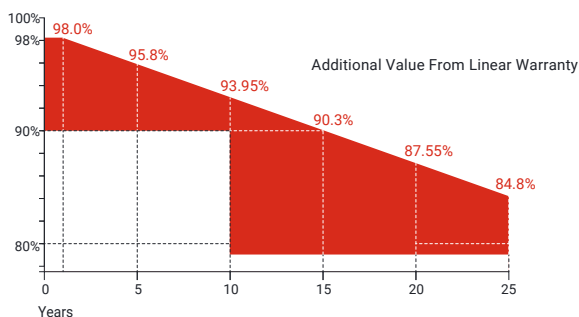


USA based liability insurance



Houston, Texas based company

Warranty



15 Years Guarantee on product material and workmanship

25 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 1

ISO14001:2015; ISO9001:2015; ISO45001:2018



CALIFORNIA ENERGY COMMISSION



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-445-BMB-TB			SEG-450-BMB-TB			SEG-455-BMB-TB			SEG-460-BMB-TB		
	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

NOCT: Irradiance 800W/m² ambient temperature 20°C module temperature 45°C wind speed: 1m/s

*Measuring tolerance: ±3%

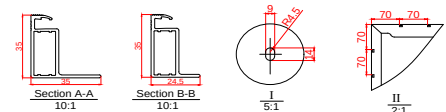
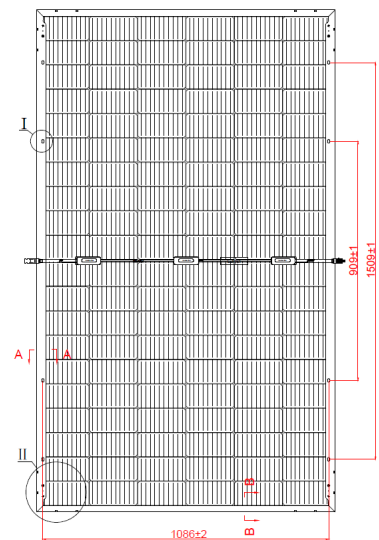
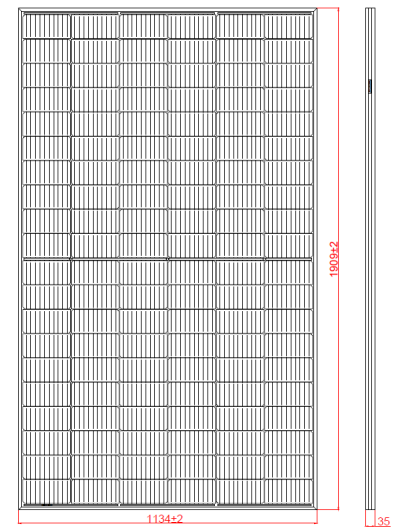
BNPI: Front irradiance 1000W/m², Rear irradiance 135W/m²

Mechanical Specifications

External Dimension	1909 x 1134 x 35 mm
Weight	22.3 kg
Solar Cells	PERC Mono-crystalline 120 pcs(60 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*	20'GP	40'HQ
Pieces per Pallet	31	31
Pallets per Container	5	24
Pieces per Container	155	744

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

Curves of PV Module

