



YUKON N Series

Half-Cell N-Type Bifacial Module

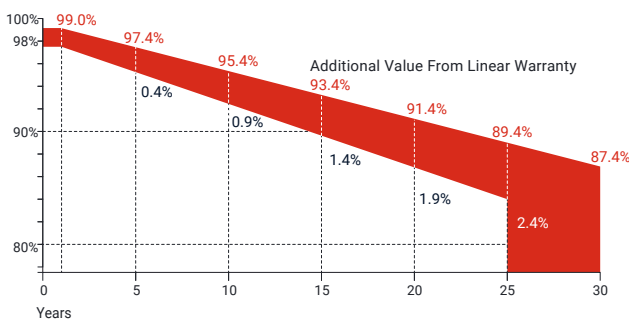
425-445Wp | **22.79%**
 Module Power Output | Max Efficiency



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



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	
	
	
	
	

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-425-BTD-BG			SEG-430-BTD-BG			SEG-435-BTD-BG			SEG-440-BTD-BG			SEG-445-BTD-BG		
	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
Maximum Power -Pmp(Wp)*	425	320	471	430	324	476	435	328	482	440	332	488	445	339	493
Open Circuit Voltage -Voc(V)	38.80	36.77	38.80	38.96	36.96	38.96	39.12	37.19	39.12	39.28	37.41	39.28	39.44	37.63	39.44
Short Circuit Current -Isc(A)	13.74	11.13	15.22	13.80	11.19	15.29	13.86	11.26	15.36	13.92	11.33	15.42	13.98	11.40	15.49
Maximum Power Voltage -Vmp(V)	32.84	30.21	32.84	33.02	30.41	33.02	33.17	30.63	33.17	33.32	30.83	33.32	33.48	31.02	33.48
Maximum Power Current -Imp(A)	12.94	10.59	14.34	13.02	10.66	14.43	13.12	10.71	14.54	13.20	10.77	14.63	13.29	10.83	14.73
Module Efficiency(%)	21.76			22.02			22.28			22.53			22.79		
Power Tolerance(W)							(0, +4.99)								
Maximum System Voltage							1500V DC								
Maximum Series Fuse Rating							30 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%

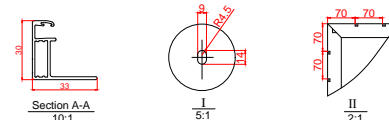
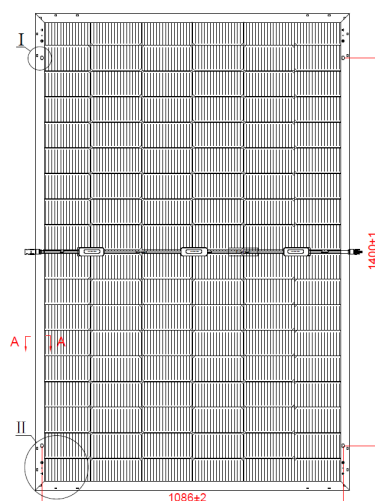
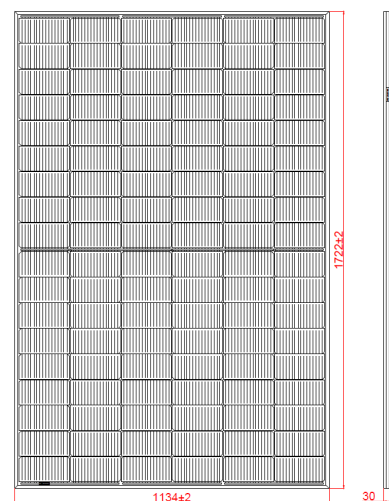
BNPI: Front irradiance 1000W/m², Rear irradiance 135W/m²

Mechanical Specifications

External Dimension	1722 x 1134 x 30 mm
Weight	24.0 kg
Solar Cells	N-Type 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	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	-0.30 %/°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

