

YUKON N Series

Half-Cell N-Type TOPCon
Bifacial Module

415-430Wp | **22.02%**
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 bifacially

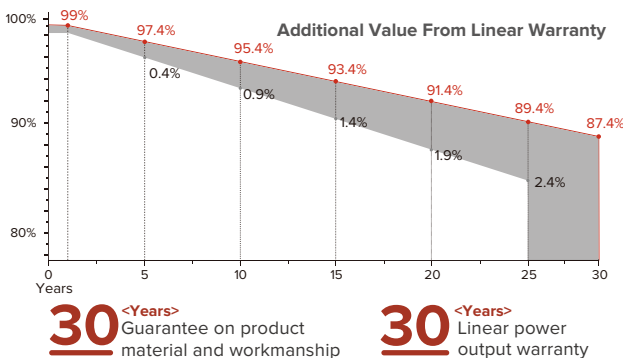


USA based liability insurance



Houston, Texas based company

Warranty



Product Certification

IEC61215:2016; IEC 61730:2016; UL61730

IEC62804

PID

IEC61701

Salt Mist

IEC62716

Ammonia Resistance

IEC60068

Dust and Sand

IEC61215

Hailstone

Fire Type (UL61730):Type29

ISO14001:2015; ISO9001:2015; ISO45001:2018



About SEG Solar

SEG Solar is a leading manufacturer of high-performance solar panels for residential, commercial, and utility applications. The company, headquartered in Houston, Texas, is committed to providing cost-effective and reliable solar solutions that help customers reduce their energy costs and carbon footprint.



Download Datasheet

Electrical Characteristics

Module Type	SEG-415-BTD-BG			SEG-420-BTD-BG			SEG-425-BTD-BG			SEG-430-BTD-BG		
	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC
Maximum Power -Pmp(Wp)*	415	312	332	420	316	336	425	320	340	430	324	344
Open Circuit Voltage -Voc(V)	38.30	36.39	38.28	38.50	36.58	38.48	38.70	36.77	38.68	38.90	36.96	38.88
Short Circuit Current -Isc(A)	13.75	11.00	11.00	13.83	11.06	11.06	13.91	11.13	11.13	13.99	11.19	11.19
Maximum Power Voltage -Vmp(V)	31.70	29.78	31.68	31.90	29.99	31.88	32.10	30.21	32.08	32.30	30.41	32.28
Maximum Power Current -Imp(A)	13.09	10.48	10.48	13.17	10.54	10.54	13.24	10.59	10.60	13.32	10.66	10.66
Module Efficiency(%)	21.25			21.51			21.76			22.02		
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

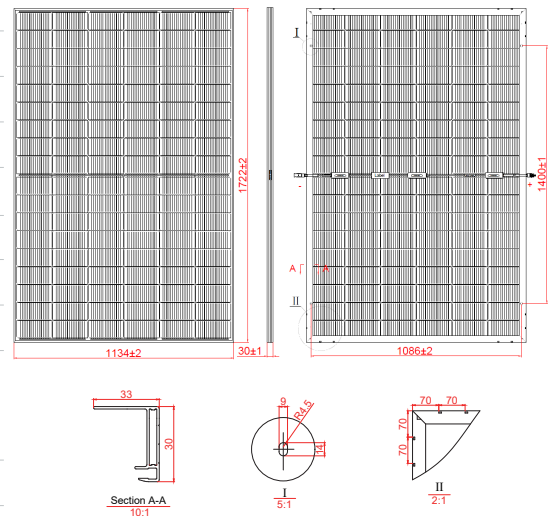
*Measuring tolerance: ±3%

Mechanical Specifications

External Dimension	1722 x 1134 x 30 mm
Weight	20.5 kg
Solar Cells	N-TOPCon 182 x 91mm(108 pcs)
Front Glass	1.6 mm AR coating semi-tempered glass
Back Glass	1.6 mm Semi-tempered glass
Frame	Black anodized aluminium alloy
Junction Box	IP68 / 3 diodes
Connector Type	PV-CO02-xy / MC4
Cable Type	12 AWG PV Wire (UL)
Cable Length	Portrait: 400 mm(+) / 200 mm(-) Landscape: 1200 mm(+) / 1200 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

Packing Configuration

Container	20'GP	40'HQ
Pieces per Pallet	36	36
Pallets per Container	6	24
Pieces per Container	216	864

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

I-V Curve

