









YUKON N Series

Half-Cell N-Type TOPCon
Bifacial Module

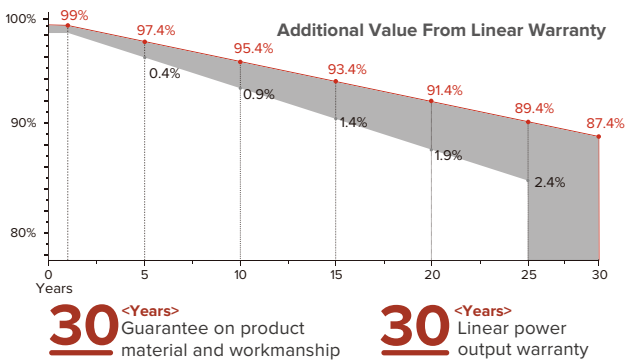
415-430Wp | **22.02%**
Module Power Output | Max Efficiency



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; UL1703; 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	(0, +3%)											
Maximum System Voltage	1500V DC											
Maximum Series Fuse Rating	30 A											

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

Mechanical Specifications

External Dimension	1722 x 1134 x 30 mm
Weight	20.5 kg
Solar Cells	N-TOPCon 182 x 91mm(108 pcs)
Front / Back Glass	1.6 mm AR coating semi-tempered glass / low iron
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

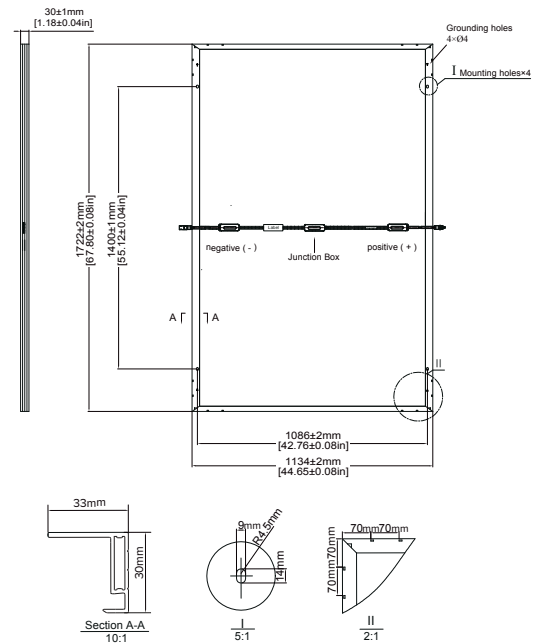
Packing Configuration

Container	20'GP	40'HQ
Pieces per Pallet	36	36
Pallets per Container	6	26
Pieces per Container	216	936

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

Technical Drawing



*Refer to SEG installation Manual for details

I-V Curve

