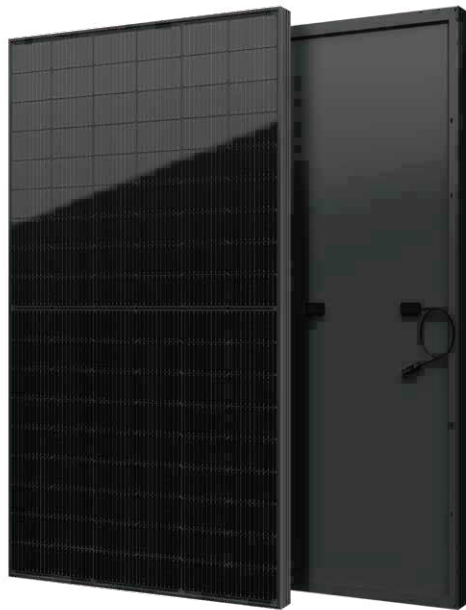


YUKON N Series

Half-Cell N-Type TOPCon
Monofacial Module

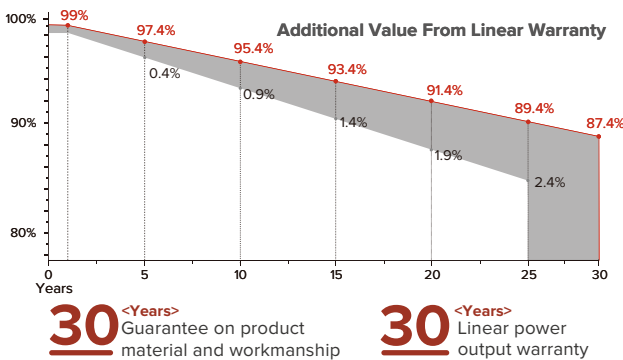
415-430Wp | **22.02%**
Module Power Output | Max Efficiency



Key Features

- High module conversion efficiency
- Better temperature coefficient
- Super multi busbar technology
- Low attenuation long warranty
- Superior load capacity
- Aesthetic appearance
- 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	Front STC	Front NOCT	Front STC	Front NOCT	Front STC	Front NOCT
Maximum Power -Pmp(Wp)	415	312	420	316	425	320	430	324
Open Circuit Voltage -Voc(V)	38.30	36.39	38.50	36.58	38.70	36.77	38.90	36.96
Short Circuit Current -Isc(A)	13.75	11.00	13.83	11.06	13.91	11.13	13.99	11.19
Maximum Power Voltage -Vmp(V)	31.70	29.78	31.90	29.99	32.10	30.21	32.30	30.41
Maximum Power Current -Imp(A)	13.09	10.48	13.17	10.54	13.24	10.59	13.32	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

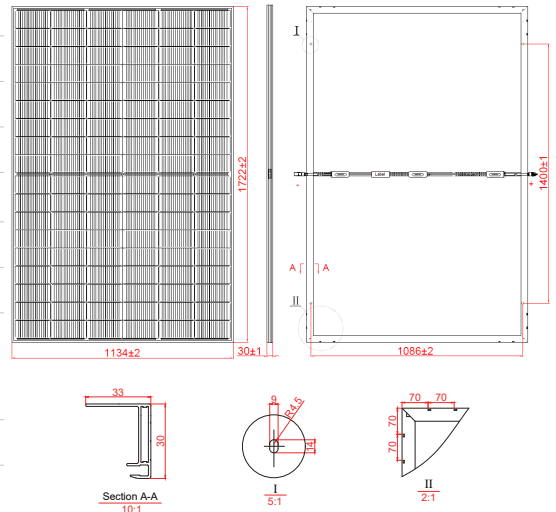
NOCT: Irradiance 800W/m² ambient temperature 20°C module temperature 45°C wind speed: 1m/s

Mechanical Specifications

External Dimension	1722 x 1134 x 30 mm
Weight	24.0 kg
Solar Cells	N-TOPCon 182 x 91mm(108 pcs)
Front / Back Glass	2.0 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

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

