

# YUKON Series

Half-Cell N-Type TOPCon  
Bifacial Module

**415-430W**  
Module Power Output

**22.02%**  
Max Efficiency



## Key Features



High module conversion efficiency



Better temperature coefficient



Super multi busbar technology



Low attenuation long warranty



Superior load capacity



Higher bifaciality

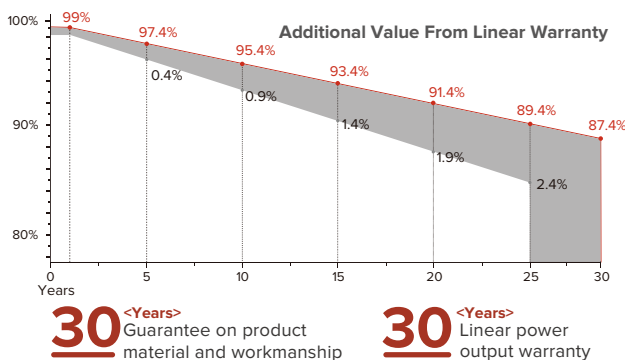


USA based liability insurance



Houston, Texas based company

## Warranty



## Product Certification

IEC61215:2016; IEC 61730:2016; UL1703; UL61730/ETL/CEC

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(W)	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 STC-ηm(%)	21.25			21.51			21.76			22.02		
Power Tolerance(W)	(0, +3%)											
Maximum System Voltage	1500V DC											
Maximum Series Fuse Rating	25 A											

STC: Irradiance 1000 W/m<sup>2</sup> module temperature 25°C AM=1.5

NOCT: Irradiance 800W/m<sup>2</sup> ambient temperature 20°C module temperature 45°C wind speed: 1m/s

Power measurement 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 / Back Glass	1.6mm AR coating semi-tempered glass / low iron
Frame	Black anodized aluminium alloy
Junction Box	IP68 / 3 diodes
Connector Type	MC4
Cable Type / Length	12 AWG PV Wire (UL) /1200 mm
Mechanical Load(Front)	5400 Pa / 113 psf*
Mechanical Load(Rear)	2400 Pa / 50 psf*

\*Refer to SEG installation Manual for details

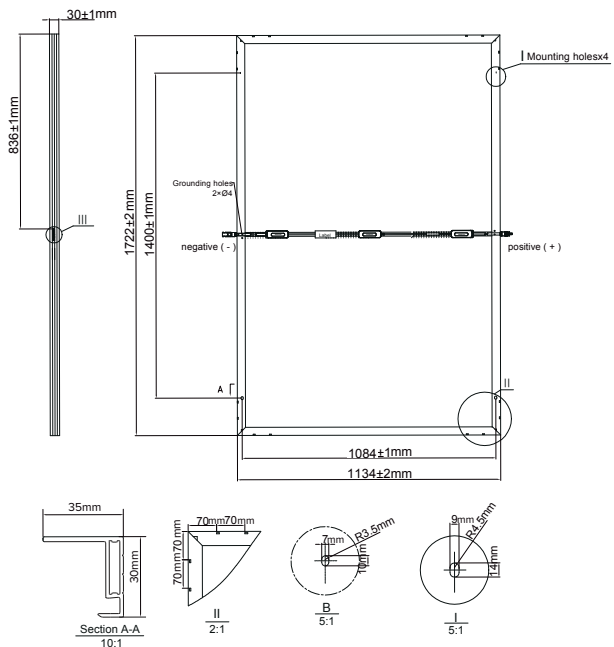
## Packing Configuration

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

## Technical Drawing



\*Refer to SEG installation Manual for details

## I-V Curve

