



# YUKON N Series

Half-Cell N-Type Monofacial Module

**420-435Wp**  
Module Power Output

**22.28%**  
Max Efficiency



## Key Features



High module conversion efficiency



Better temperature coefficient



Super multi busbar technology



Low attenuation long warranty



Superior load capacity



Aesthetic appearance

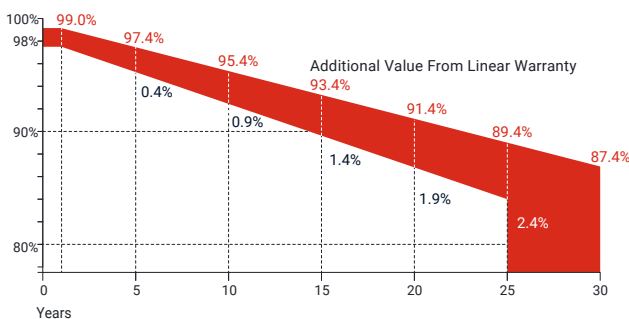


USA based liability insurance



Houston, Texas based company

## Warranty



**30 Years** Guarantee on product material and workmanship

**30 Years** Linear power output warranty

## Product Certification

IEC61215:2016; IEC 61730:2016; 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 2023, SEG has shipped over 5 GW of solar modules worldwide. The company is expected to exceed a production capacity of 5.5 GW by the end of 2024.



Download Datasheet

### Electrical Characteristics

Module Type	SEG-420-BTD-BG		SEG-425-BTD-BG		SEG-430-BTD-BG		SEG-435-BTD-BG	
	Front STC	Front NOCT	Front STC	Front NOCT	Front STC	Front NOCT	Front STC	Front NOCT
Maximum Power -Pmp(Wp)*	420	316	425	320	430	324	435	328
Open Circuit Voltage -Voc(V)	38.50	36.58	38.70	36.77	38.90	36.96	39.10	37.19
Short Circuit Current -Isc(A)	13.83	11.06	13.91	11.13	13.99	11.19	14.07	11.26
Maximum Power Voltage -Vmp(V)	31.90	29.99	32.10	30.21	32.30	30.41	32.50	30.63
Maximum Power Current -Imp(A)	13.17	10.54	13.24	10.59	13.32	10.66	13.39	10.71
Module Efficiency(%)	21.51		21.76		22.02		22.28	
Power Tolerance(W)				(0, +4.99)				
Maximum System Voltage				1500V DC				
Maximum Series Fuse Rating				30 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

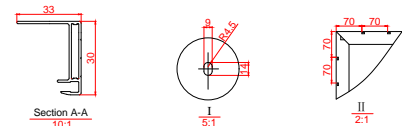
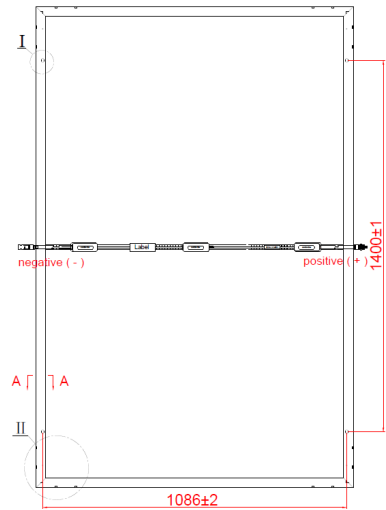
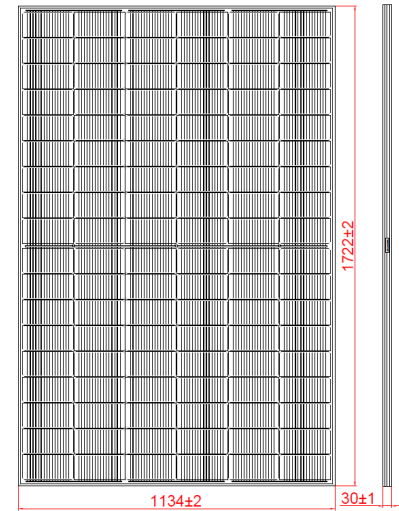
\*Measuring tolerance: ±3%

### Mechanical Specifications

External Dimension	1722 x 1134 x 30 mm
Weight	20.5 kg
Solar Cells	N-Type 182 x 91 mm(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-C002-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

### 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
Pieces per Pallet	36	36
Pallets per Container	6	24
Pieces per Container	216	864

### I-V Curve

