

# LIMITLESS ULTRA

## 475-500W

High Efficiency N-TOPCon Bifacial Module



Bifacial technology enables additional energy harvesting from rear side (up to 30%).



30 year lifespan brings 10-30% additional power generation compared to conventional P-type modules.



N-type solar cells naturally don't have LID, which increases power generation.



Excellent low irradiance performance.



100% triple EL test enabling remarkable reduction of hidden crack rate of modules.



Industry leading lowest thermal coefficient of power.

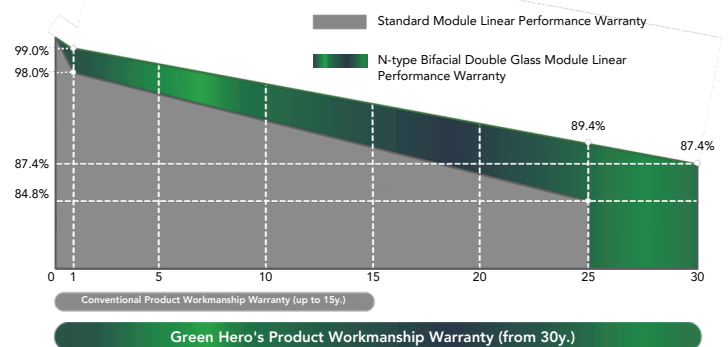


Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).

IEC6215(2016), IEC61730(2016)  
 ISO9001:2016: Quality Management System  
 ISO45001:2018  
 Occupational health and safety management systems



### LINEAR PERFORMANCE WARRANTY



**30** years  
 Product Workmanship Warranty

**30** years  
 Output Power Warranty

Max. Power (Pmax)	475	480	485	490	495	500
Max. Voltage Vmp (V)	35.88	36.06	36.25	36.43	36.62	36.79
Max. Current Imp (A)	13.24	13.31	13.38	13.45	13.52	13.59
Open-Circuit VOC (V)	43.45	43.60	43.76	43.91	44.07	44.21
Short-Circuit Current ISC (A)	13.77	13.85	13.93	14.01	14.09	14.17
Module Efficiency STC (%)	21.98	22.21	22.44	22.67	22.90	23.17
Power Tolerance	0 ~ +3%					
Temp. Coefficient (Pmax)	-0.29%/°C					
Temp. Coefficients (Voc)	-0.25 %/°C					
Temp. Coefficients (Isc)	0.045%/°C					

Cell Type	N-Type Mono-crystalline
No. of cells	120 (60x2)
Dimensions	1906x1134x30mm
Weight	22.5kg
Front Glass / Frame	3.2mm, Anti-reflections coating, high transmission, low iron, tempered glass
Junction Box	Anodized Aluminum Alloy
Protection Class	IP68 Rated
IEC Fire Type	Class II
Connector Type	Class A
Output Cables	4.0 mm2 (+): 400mm, (-): 200mm or customized length

Pallet Dimensions	1936x1140x1249mm
Packing Detail (Two Pallets=one stack)	35pcs/pallets, 72pcs/stack, 864 pcs/40'HQ Container

Operating Temp.	-40°C~+70°C
Max. System Voltage	1000/1500VDC (IEC)
Max. Series Fuse Rating	30A

