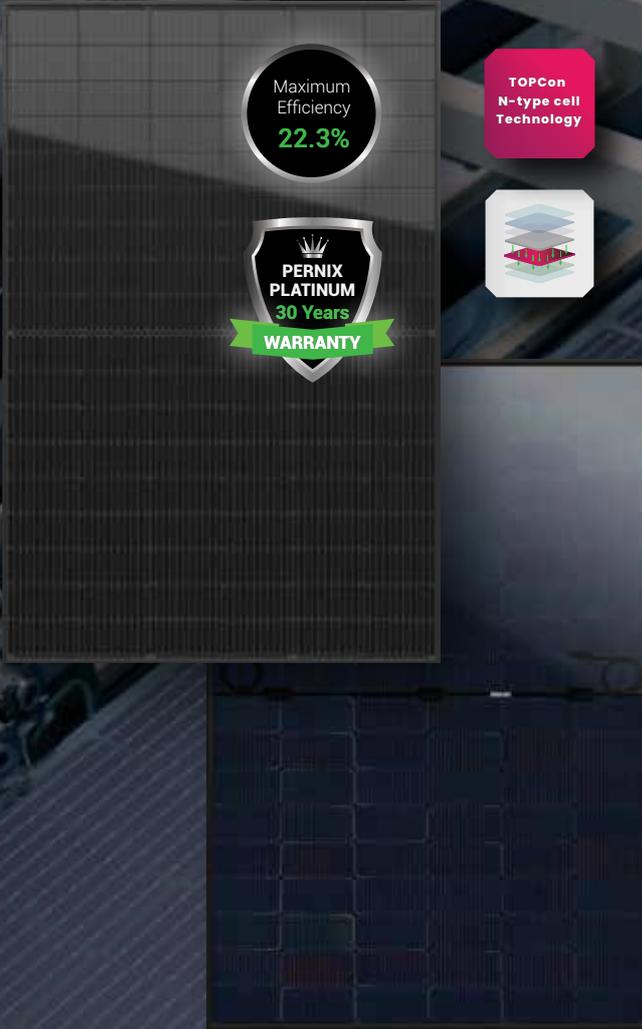


# ELITE SERIES

## All Black - Double Glass - Bifacial

**435 W+** | **N-TYPE CELLS** | **22.3%** | **30 Yr PLATINUM**  
 POWER RANGE 425-435W | WITH TOPCon TECHNOLOGY | MODULE EFFICIENCY | PERFORMANCE & PRODUCT WARRANTY



### Double Glass Durability

Maximum durability of solar cells between tempered glass layers, resisting damage from weather and mechanical stresses



### 10-30% Additional Power Generation

10-30% additional power generation compared with conventional P-type module



### ZERO LID (Light Induced Degradation)

N-type solar cells have no LID naturally which can increase power generation



### Lower LCOE

Higher bifaciality factor of 80% ±5%, leading to higher power output and lower BOS cost



### Better Weak Illumination Response

Higher power output even under low-light environment



### Better Temperature Coefficient

Higher power generation under normal working conditions



### Enhanced Mechanical Load

Certified to withstand :  
 Windload 2400 Pascal  
 Snow load 5400 Pascal

### Testing & Certifications

- ✓ Highest Fire Safety Rating - Class A IEC 61730-2 (UL790)
- ✓ IEC 61730: 2016 Latest Standard
- ✓ ISO 14001 and ISO 45001

Meeting the highest international standards for strict quality control



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### Electrical Characteristics

Module	PX-54-182-ND		
Maximum Power at STC* (Pmax)	425W	430W	435W
Open- Circuit Voltage (Voc)	38.20V	38.30V	38.40V
Short- Circuit Current (Isc)	14.15A	14.23A	14.31A
Optimum Operating Voltage (Vmp)	31.70V	31.90V	32.00V
Optimum Operating Current (Imp)	13.42A	13.50A	13.60A
Module efficiency	21.74%	21.99%	22.30%
Power Tolerance		0~+5W	
Maximum System Voltage	1500V DC (UL / IEC)		
Maximum Series Fuse Rating	25A		
Operating Temperature	-40 °C to + 85 °C		

\* STC: Irradiance 1000W/m<sup>2</sup>, module temperature 25, AM=1.5

### Bifacial Output

Power Gain (Rear surface of module)	425		430		435	
	Pmax (Wp)	Efficiency (%)	Pmax (Wp)	Efficiency (%)	Pmax (Wp)	Efficiency (%)
+ 10%	468	23.91	473	24.20	479	24.48
+ 15%	489	25.00	495	25.30	500	25.59
+ 20%	510	26.09	516	26.39	522	26.70
+ 25%	531	27.18	538	27.49	544	27.81
+ 30%	553	28.26	559	28.59	566	28.93

\* Bifaciality Factor > 80%. Power Gained from the Rear surface of module depends on the specific project albedo & Efficiency Gain is in accordance with surface of module

### Mechanical Characteristics

Solar Cells	N-Type (TOPCon) Technology Monocrystalline 182mm x 91mm
No. of Cells	108 (6 x 18)
Dimensions	1724mm ±2mm x 1134mm ±2mm x 30mm
Weight	24.0kg
Front and Rear Glass	High transmission tempered glass; thickness; 2.0mm
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm <sup>2</sup> (UL / IEC) length; (+) 1200mm (-) 1200mm
Connectors	Stäubli MC4-Evo2 Connectors
Packaging Configuration	36pcs / box, 936pcs / 40' HQ container

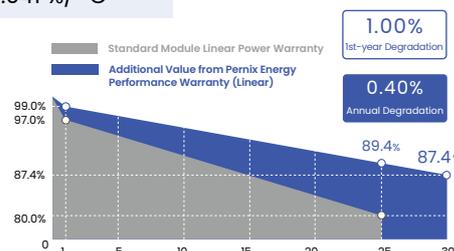
### Temperature Characteristics

Temperature Coefficient of Pmax	- 0.29 % / °C
Temperature Coefficient of Voc	- 0.23 % / °C
Temperature Coefficient of Isc	+ 0.041 % / °C

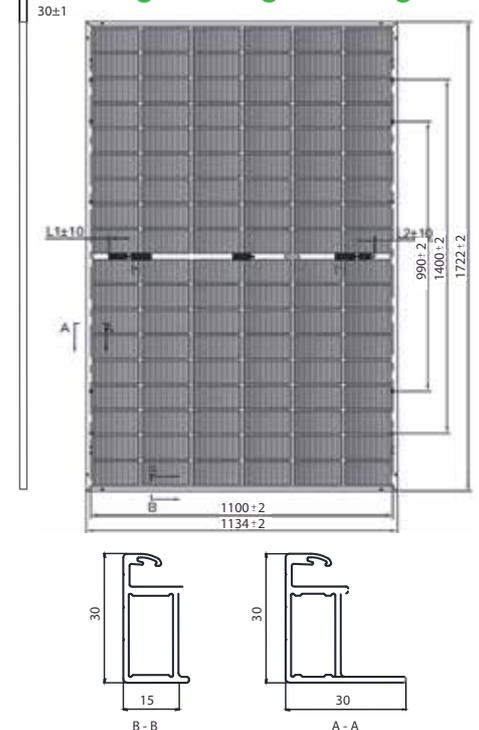
### Warranty\*

Performance Warranty	30 Years
Product Warranty	30 Years

\* Further information about the warranties can be found at [www.pernixenergy.com](http://www.pernixenergy.com)



### Engineering Drawing



### IV Curves

