ELITE Series White

N-type cells with TOPCon Technology

425W / 430W / 435W

PERNIX ENERGY

10-30% Additional Power Generation

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

ZERO LID (Light Induced Degradation)

N-type solar cell has no LID naturally which can increase power generation

Lower LCOE

Higher power output and lower BOS cost

Better Weak Illumination Response

Higher power output even under low-light environment

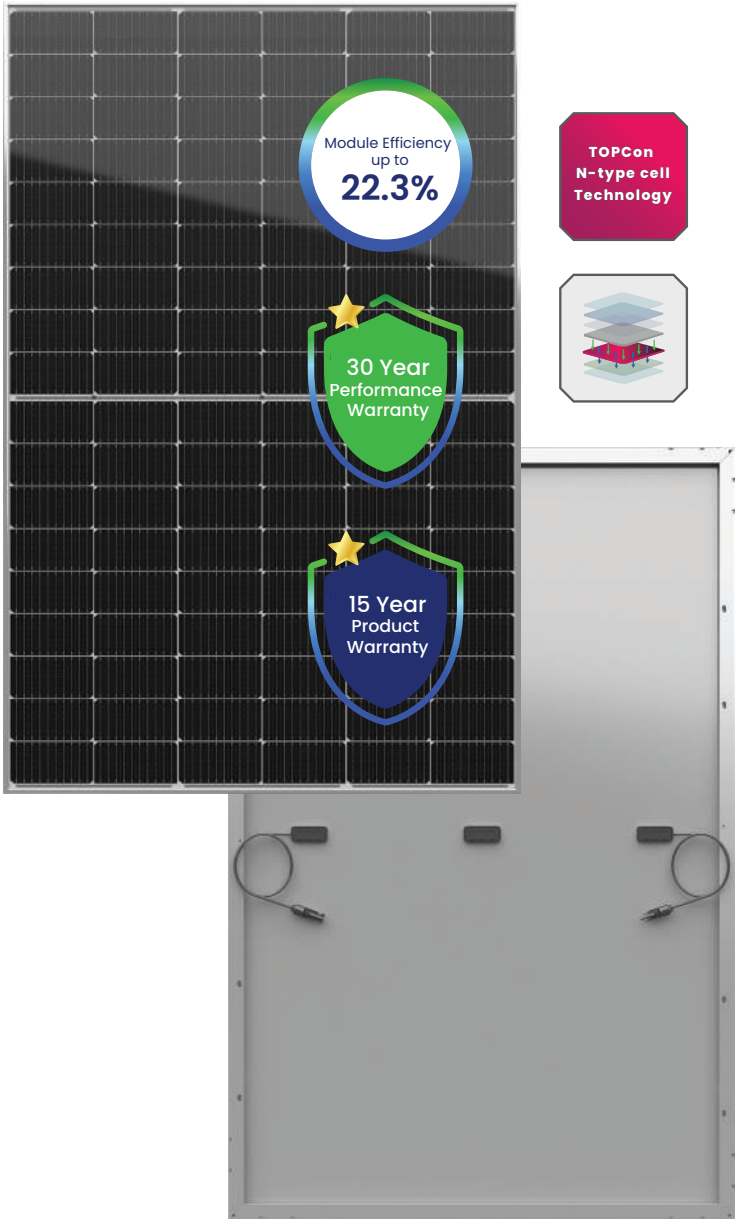
Better Temperature Coefficient

Higher power generation under normal working conditions

Enhanced Mechanical Load

2400 Pa
5400 Pa

Certified to withstand :
Windload 2400 Pascal
Snow load 5400 Pascal



Testing & Certifications:

- IEC 61215: 2016
- IEC 61730: 2016 Latest Standard
- ISO 14001 and ISO 45001

Meeting the highest international standards for strict quality control

Designed & Engineered in the UK & Europe

TÜVRheinland® CERTIFIED

Munich RE (Warranty underwritten by)

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PERNIX ENERGY

ELITE Series White

Electrical Characteristics

Module	PX-54-182-N		
Maximum Power at STC* (Pmax)	425W	430W	435W
Open- Circuit Voltage (Voc)	38.2V	38.3V	38.4V
Short- Circuit Current (Isc)	14.15A	14.23A	14.31A
Optimum Operating Voltage (Vmp)	31.7V	31.9V	32.0V
Optimum Operating Current (Imp)	13.42A	13.50A	13.60A
Module efficiency	21.74%	21.99%	22.3%
Power Tolerance	0~+5W		
Maximum System Voltage	1500V DC (UL / IEC)		
Maximum Series Fuse Rating	25A		
Operating Temperature	-40 °C to + 85 °C		

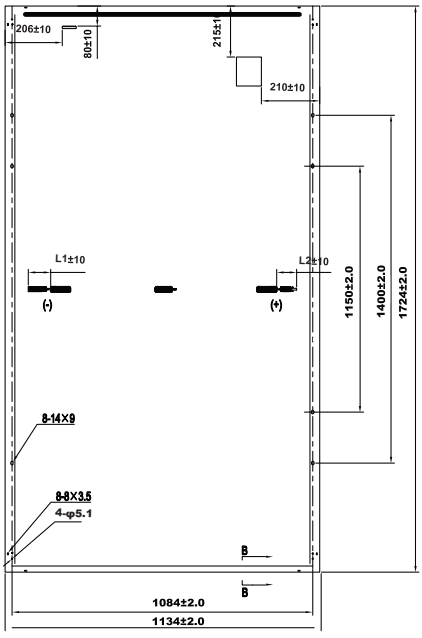
* STC: Irracdiance 1000W/m², module temperature 25, AM=1.5

NMOT*

Module	PX-54-182-N		
Maximum Power	323W	327W	331W
Open- Circuit Voltage (Voc)	36.7V	36.8V	36.9V
Short- Circuit Current (Isc)	11.40A	11.47A	11.53A
Maximum Power Voltage (Vmp)	30.4V	30.7V	30.9V
Maximum Circuit Current (Imp)	10.62A	10.65A	10.71A
NMOT	45 ± 2 °C		

* NMOT: Irracdiance 800W/m², ambient temperature 20 °C, wind speed 1m/s

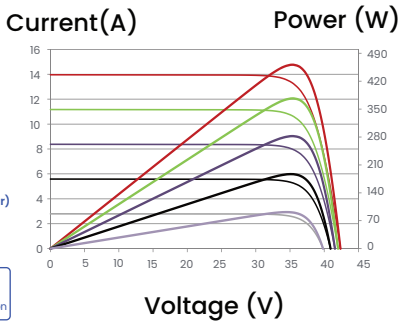
Engineering Drawing



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	21.0kg
Front Glass	High transmission tempered glass; thickness; 3.2mm
Frame	Anodized aluminimum alloy
Junction Box	IP68
Cable	4mm²(UL / IEC) length; (+) 400mm (-) 200mm / length can be customised
Connectors	MC_4/MC_4compatible
Packaging Configuration	36pcs / box, 936pcs / 40' HQ container

IV Curves



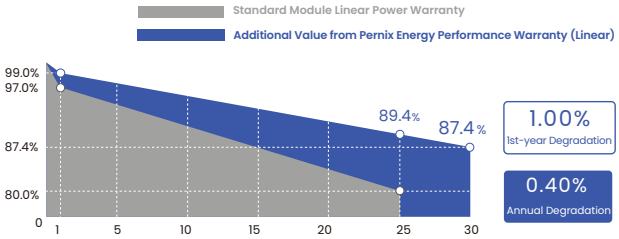
Temperature Characteristics

Temperature Coeffiecient of Pmax	- 0.31 %/ °C
Temperature Coeffiecient of Voc	- 0.25%/ °C
Temperature Coeffiecient of Isc	+ 0.046%/ °C

Warranty*

Performance Warranty	30 Years
Product Warranty	15 Years

* Further information about the warranties can be found at www.pernixenergy.com



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