

ONYX HIGH EFFICIENCY TOPCON MONO-FACIAL MODULE

475/480/485/490/495/500



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



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



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



Excellent low irradiance performance.



Industry leading lowest thermal co-efficient of power.

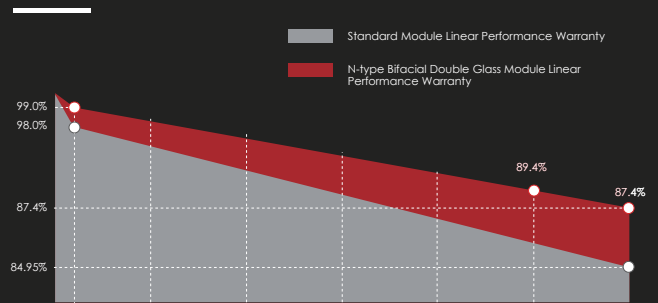


Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).



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

LINEAR PERFORMANCE WARRANTY



30 years
Product Workmanship Warranty

30 years
Output Power Warranty

- IEC61215(2016), IEC61730(2016)
- ISO9001:2015: Quality Management System
- ISO45001:2018 Occupational health and safety management systems



ESXXM60-NT2 475-500 Watt

Mechanical Characteristics

Cell Type	N-type Mono-crystalline
No. of cells	120 (60×2)
Dimensions	1906×1134×30 mm
Weight	22.5 kg
Front Glass	3.2mm, Anti-reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class A
Connector Type	MC4 Compatible/MC4
Output Cables	4.0 mm ² (+): 400 mm , (-): 200 mm or Customized Length

Packaging Configuration

Pallet Dimensions	1936×1140×1249 mm
Packing detail (Two pallets=One stack)	36 pcs/pallets, 72 pcs/stack, 864 pcs/ 40'HQ Container

Specifications (STC)

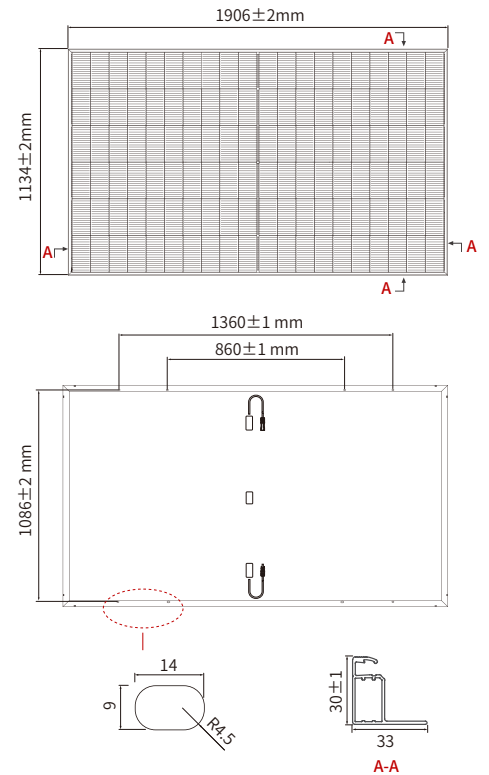
Maximum Power – Pmax [Wp]	475	480	485	490	495	500
Maximum Power Voltage – Vmp [V]	35.88	36.06	36.25	36.43	36.62	36.79
Maximum Power Current – Imp [A]	13.24	13.31	13.38	13.45	13.52	13.59
Open-circuit Voltage – Voc [V]	43.45	43.60	43.76	43.91	44.07	44.21
Short-circuit Current – Isc [A]	13.77	13.85	13.93	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 %					
Temperature Coefficients of Pmax	-0.29 %/°C					
Temperature Coefficients of Voc	-0.25 %/°C					
Temperature Coefficients of Isc	0.045 %/°C					

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

Application Conditions

Operating Temperature	-40 °C ~ +70°C
Maximum System Voltage	1000/1500 VDC (IEC)
Maximum Series fuse Rating	30 A

Engineering Drawings



*Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

Electrical Performance

