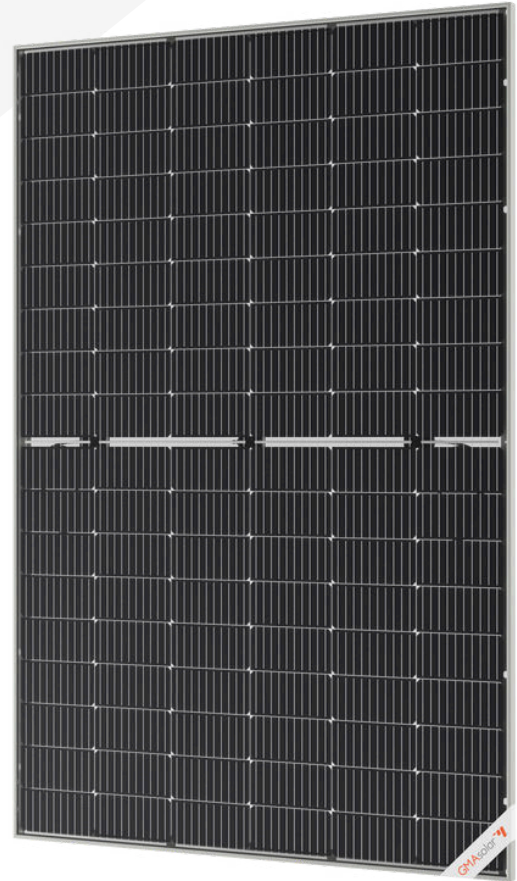


450 Watt N-Type MONO-BIFACIAL MODULE



- ◆ IEC 61215: 2021
- ◆ IEC 61730: 2016
- ◆ TÜV Rheinland Standard
- ◆ CE: European Certification
- ◆ Resistance to salt mist and ammonia corrosion
- ◆ Performance tests under extreme conditions
- ◆ Wind and snow load testing

◆ Key Features



Higher Energy Efficiency

N-Type Mono-Bifacial technology harnesses reflected light.



High Climate Resilience

Wind load resistance of 2400Pa and snow load resistance of 5400Pa.



Improved Performance in Low Light

Optimal operation in low irradiation conditions.



Longer Lifespan

25-year warranty with over 85% power output.



PID Protection

Minimized power loss due to degradation effects.



Easy Installation & Compatibility

Lightweight design for easier handling and installation.

450 Watt N-Type MONO-BIFACIAL MODULE

> Electrical Parameters at STC

Maximum Power (Pmax)	450 Wp
Voltage at Maximum Power (Vmpp)	34.60 V
Current at Maximum Power (Impp)	13.01 A
Open Circuit Voltage (Voc)	41.40V
Short Circuit Current (Isc)	13.68 A
Module Efficiency	22.53 %

Values at standard test conditions STC (Air mass AM 1.5, Irradiance 1000W/sqm, Cell temperature 25°C)
Power Measurement Tolerance: 0 / +3%

> Specifications

Weight	23 kg
Dimension	1762mm*1134mm*30mm
Cell Dimension	182*91mm
Cell Amount	54*2 pcs
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm ² , +300,-300mm/±1100mm Length can be customized
Connector	MC4 compatible
Application Level	Class A

> Temperature Coefficients

Nominal Operating Cell Temp. (NOCT)	45±2°C
Voltage Temperature Coefficient (VOC)	-0.23%/°C
Current Temperature Coefficient (Isc)	0.04%/°C
Power Temperature Coefficient (Pmax)	-0.28%/°C

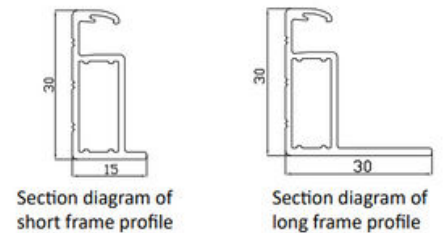
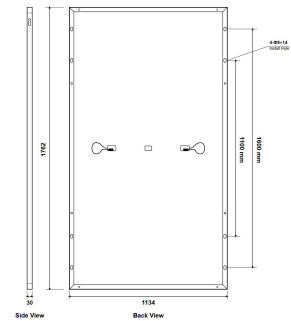
> Maximum Ratings

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V
Wind Load/ Snow Load	2400pa/5400pa
Fuse Current	25A

> Warranty & certifications

Warranty	25 years Power Output Warranty 10 years 90%, 25 years 85% 10 years Product Warranty on Material
Certification	IEC 61215:2021 IEC 61730:2016

> Mechanical Drawing



> IV Characteristics

