

DAS MODUL

Ninside A.G. **RE**

Monocrystalline module



Product range: 440-450w
 Product: DMMXSCNi RE AG BW
 Type: TopCon Halfcut Rectangle

450 W
 MAXIMUM POWER OUTPUT

23%
 MAXIMUM EFFICIENCY



MADE IN GERMANY



O-PID

PID control is optimized through a combination of high-quality materials, ensuring the absence of PID (Potential Induced Degradation) phenomenon.



LID Performance

Our Ni-RE cells are neutral to the LID (Light Induced Degradation) effect, with no boron-oxygen interaction, ensuring long-lasting performance.



Reliability

DAS MODUL is a mark of proven quality with over 10 years of experience in this range. We offer a 30-year warranty on both mechanical parts and performance.



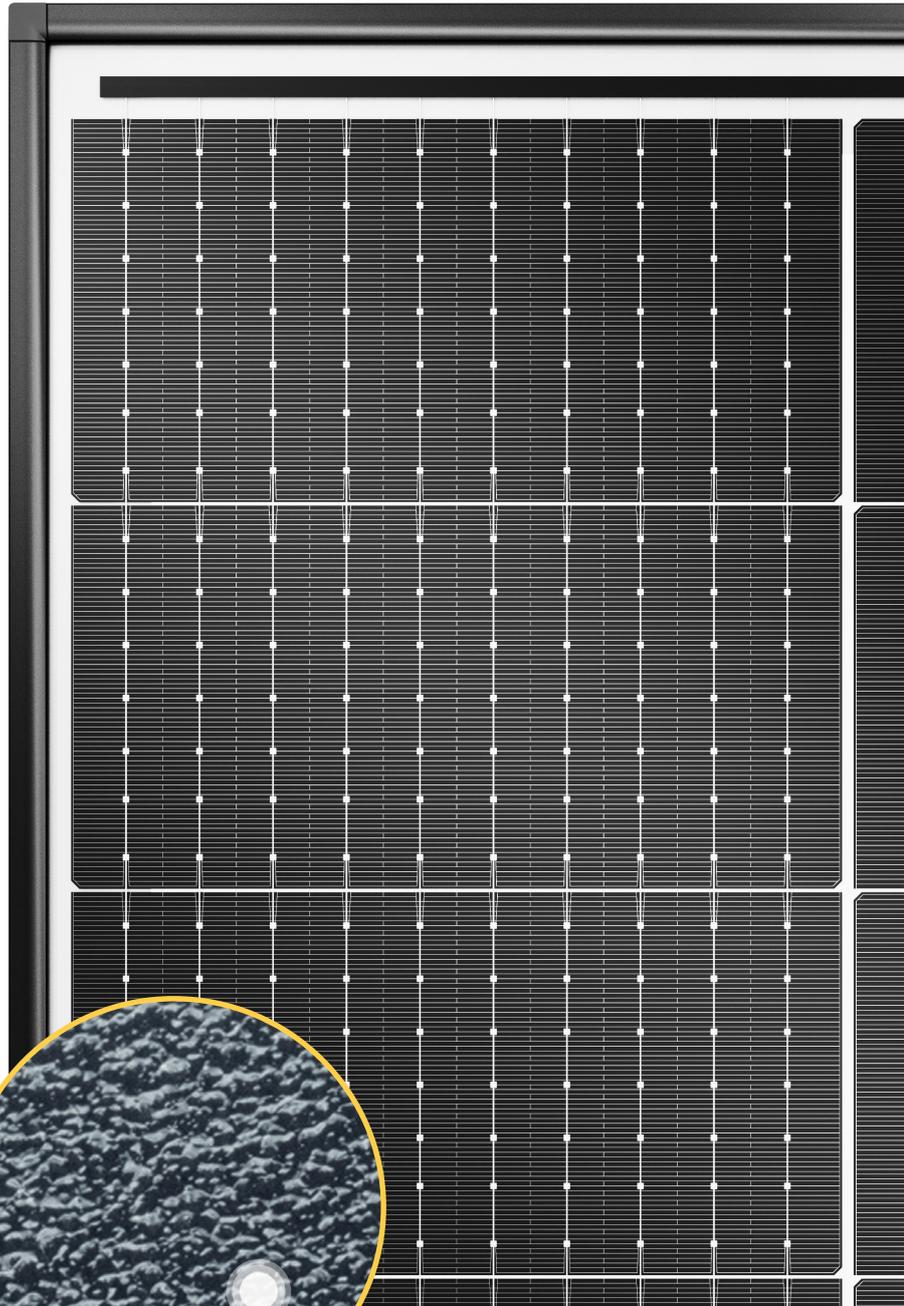
Full Power

Das Modul Ni RE combines a compact format with an efficiency greater than 23%, providing maximum power in a reduced space.



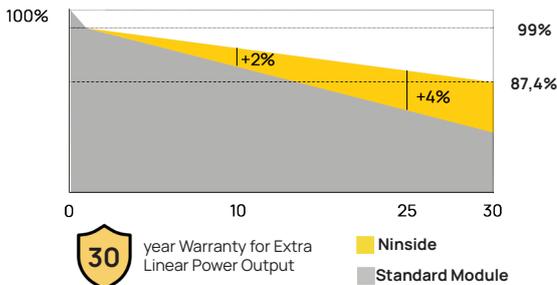
SMBB

Soluxtec's Smart Wire technology enables Das Modul RE to optimize light capture, ensuring a consistent current flow for higher power output and improved energy efficiency.



Unique glass pattern made and design in Germany $< 10000 \text{ cd/m}^2$

Soluxtec Solar's Performance Warranty



Comprehensive Products and System Certificates



- IEC61215:2021 / IEC61730:2023
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environmental Management System
- ISO45001:2018: Occupational health and safety management systems
- UNI 9177 : Fire test class 1
- HIR Class 4 by IBS



30 years
Product warranty

30 years
Linear Power Warranty

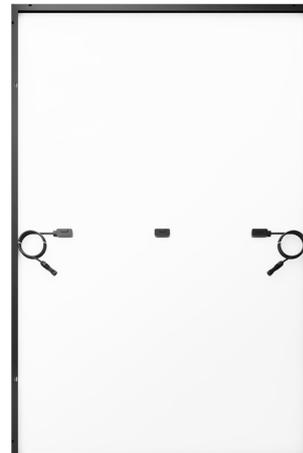
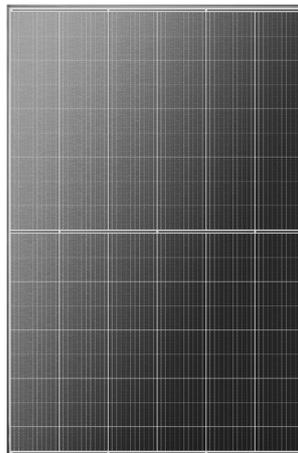
1%
First year degradation

0,4%
Annual Degradation
Over 30 Years

ELECTRICAL PARAMETERS UNDER STC CONDITIONS

Model	DMMXSCNi 440	DMMXSCNi 445	DMMXSCNi 450
Maximum Power Point (Pmax)*	440	445	450
Open Circuit Voltage (Voc)	38,82	39	39,18
Short Circuit Current (Isc)	14,37	14,45	14,53
Maximum Power Voltage (Vmpp)	32,26	32,44	32,62
Maximum Power Current (Impp)	13,66	13,73	13,81
Module Efficiency (%)	22,59	22,83	23,09
Power Tolerance (Wp)		0-4,99Wp	
Temperature coefficient TC Isc		+0,03%/°C	
Temperature coefficient TC Voc		-0,28%/°C	
Temperature coefficient TC Pmpp		-0,30%/°C	

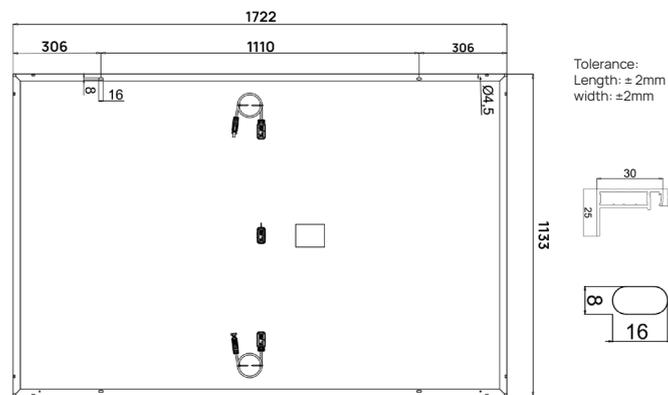
(1000 w/m², 25°C, +/- 2°C, AM=1,5 according to IEC 60904_3).



ELECTRICAL PARAMETERS UNDER NMOT CONDITIONS

Model	DMMXSCNi 440	DMMXSCNi 445	DMMXSCNi 450
Maximum Power Point (Pmax)	333	337	341
Open Circuit Voltage (Voc)	36,75	36,93	37,1
Short Circuit Current (Isc)	11,47	11,54	11,6
Maximum Power Voltage (Vmpp)	30,53	30,71	30,89
Maximum Power Current (Impp)	10,69	10,76	11,05

(800W/m², NMOT, AM=1,5)



OPERATING CONDITIONS

Max. Operating Voltage:	1500 Vdc
Protection Class:	Class II
Operating T° range:	- 40°C ... + 85°C
Max. Reverse Current:	25 A
STC 25°C:	+/- 2°C
NMOT 45° C:	+/- 2°C
Design load + (snow):	3600 PA
Maximum test load +:	5400 PA
Design load - (wind):	2666 PA
Maximum test load - :	4000 PA

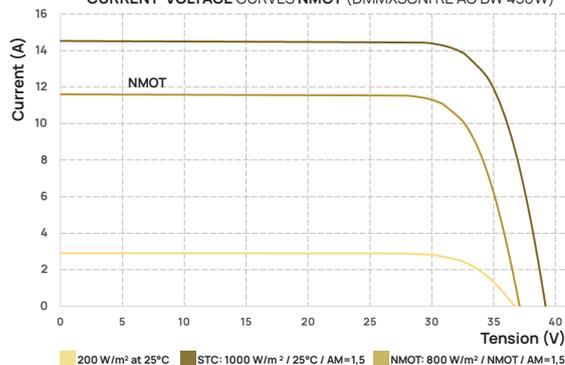
MECHANICAL PROPERTIES

Dimensions :	1722 * 1133 * 30 mm
Weight :	21,5 kg +/- 3 %
Cell :	108 half cut Mono TOPCON N-TYPE
Junction Box :	IP 68,3 diodes potted
Connectors :	MC4 Evo2 or Compatible
Cables :	2 * 1200 mm
Solar Glass :	3,2 mm tempered ARC + ANTI GLARE patented

PACKAGING

Per pallets :	34 modules
Per truck :	28 pallets
Pallet dimensions :	1775x1185x1260 mm
Pallet weight :	714 kg

CURRENT-VOLTAGE CURVES NMOT (DMMXSCNi RE AG BW 450W)



CURRENT-VOLTAGE CURVES STC (DMMXSCNi RE AG BW 450W)

