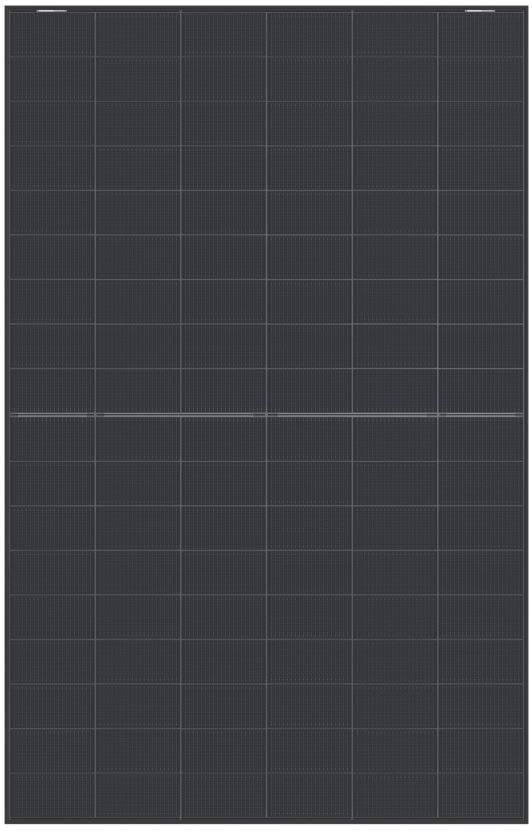
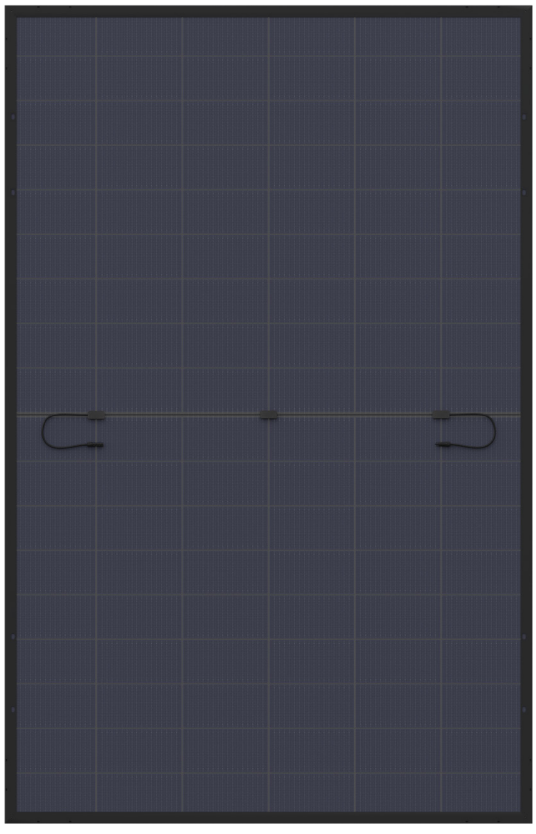




ICON-54M10RC3G
(490-505 W)

TOPCON N-TYPE

- UNINTERRUPTED TECHNOLOGY
- MONO BIFACIAL MODULE
- REDUCTION OF SHADING AND RESISTANCE LOSSES

Description

The ICON-54M10RC3G solar panel from the ICON R-Series combines cutting-edge technology with unmatched performance, delivering an output power of up to 505 W.

Designed with high-efficiency cells and advanced materials, the ICON-54M10RC3G maximizes energy production, even in challenging environments. Its robust design ensures long-term reliability and durability.

This panel meets the latest international certifications, including IEC 61215 and IEC 61730 standards, providing a reliable solution for sustainable energy projects.

FEATURES

Excellent Mechanical Load Resistance
Wind Load: 2400 Pa, Snow Load: 5400 Pa

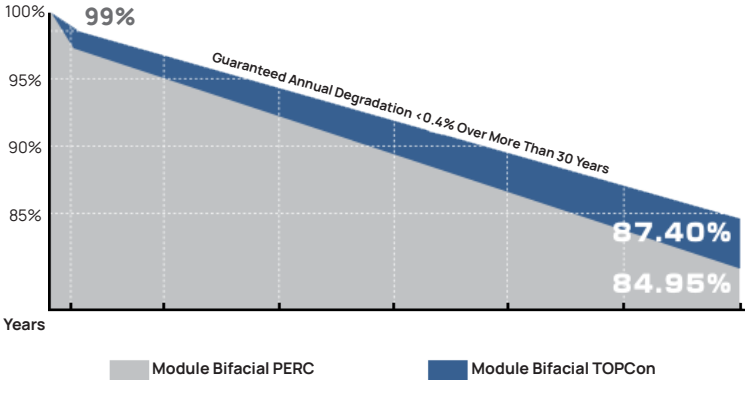
Compliance:
IEC 61215-1: 2021, IEC 61215-1-1: 2021, IEC 61215-2: 2021, IEC 61730-1: 2023, IEC 61730-2: 2023

30 years Product Warranty

30 years Linear Power Warranty

CE

TÜV SÜD



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TOPCon (TYPE N) 490-505 Watt

ELECTRICAL SPECIFICATIONS

Model Type	ICON-54M10RC3G-490		ICON-54M10RC3G-495		ICON-54M10RC3G-500		ICON-54M10RC3G-505	
	STC*	NOCT*	STC*	NOCT*	STC*	NOCT	STC*	NOCT*
Maximum Power (Pmax)	490	371	495	375	500	379	505	383
Voltage at Maximum Power (Vmp)	32,87	30,24	33,02	30,38	33,17	30,52	33,32	30,65
Current at Maximum Power (Imp)	14,91	12,28	14,99	12,35	15,08	12,42	15,16	12,48
Open-Circuit Voltage (Voc)	39,50	35,95	39,67	36,10	39,83	36,25	39,99	36,39
Short-Circuit Current (Isc)	15,84	12,78	15,90	12,83	15,96	12,87	16,02	12,92
Module Efficiency (STC)	22,03		22,26		22,48		22,71	
Operating Temperature	-40°C ~ 85°C							
Maximum System Voltage	DC1500V (IEC)							
Maximum Series Fuse Rating	30A							
Power Tolerance	0~+5Watt							
Temperature Coefficients of Pmax	-0,29%/°C							
Temperature Coefficients of Voc	-0,25%/°C							
Temperature Coefficients of Isc	0,046%/°C							
NOCT*	43±2°C							

STC: Cell Temperature: 25°C, Irradiance: 1000 W/m², Air Mass: 1.5G

NOCT: Air Temperature: 20°C, Irradiance: 800 W/m², Air Mass: 1.5G, Wind Speed: 1 m/s

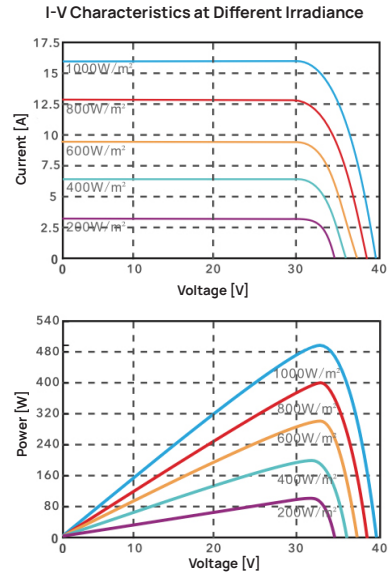
SPECIFICATION

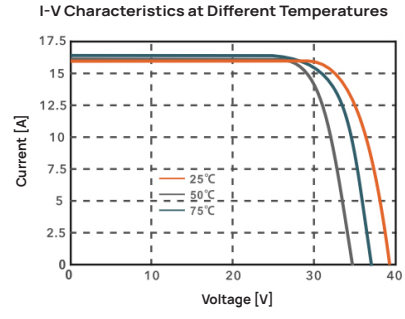
Cell Type	Monocristallin N-Type
Number of Cells	108(6x9x2)
Dimensions	1961*1134*30mm
Weight	26,6kg
Glass	2.0 + 2.0 mm, Anti-Reflective Coating, High Transmission, Low Iron Content, Tempered Glass
Junction Box	IP68, 3 diodes
Connector	MC4 Compatible
Cable Length (including connector)	Landscape: (+)1200/(-)1200mm or custom length
Packaging Configuration	Two boxes = One pallet 36 units/box, 72 units/pallet, 792 units/40HQ container

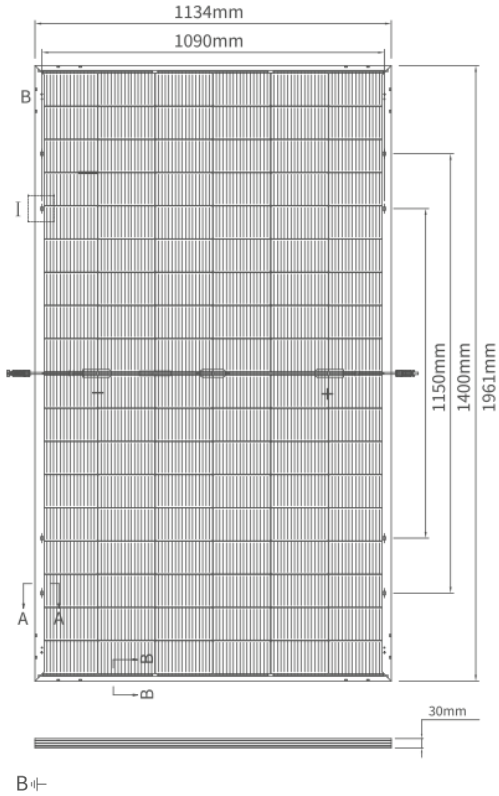
Electrical Characteristics with Different Rear Side Power Gains (Reference to a front-side power of 500 W)

Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Gain Pmax
500	38,83	15,96	33,17	15,08	0%
525	38,83	16,76	33,17	15,83	5%
550	38,83	17,56	33,17	16,59	10%
575	38,83	18,35	33,17	17,34	15%
600	38,83	19,15	33,17	18,10	20%
625	38,83	19,95	33,17	18,85	25%
650	38,83	20,75	33,17	19,60	30%

COURBE I-V [505W]







Length: ± 2mm
Width: ± 2mm
Height : ± 1mm
Row Spacing : ± 2mm

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