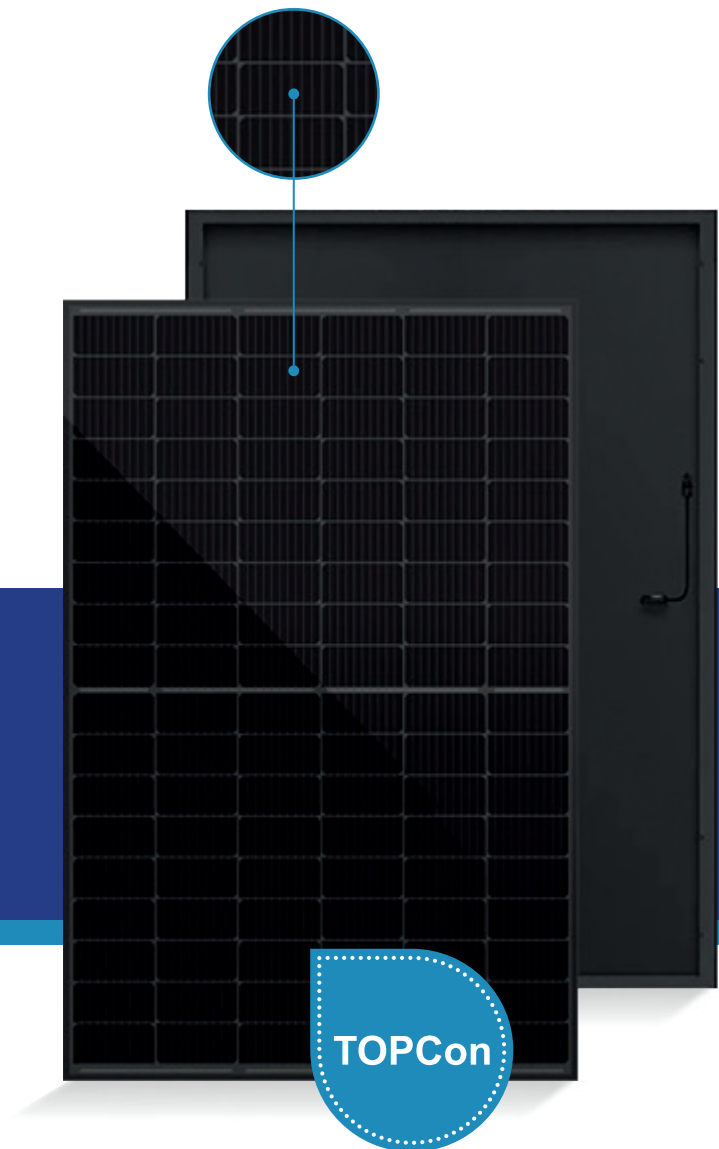


TOPCon All Black Solar Panel

Monocrystalline Half-Cut Solar Module N Type

RHFSM4430-BN



Product Features



MBB Half-Cut Solar Cell
108 cells (6x9x2)



Light-weight design
Light-weight design using transparent backsheet for easy installation and low BOS cost



Higher Module Conversion Efficiency
Half-Cut Technology
Higher module output up to 430W with module efficiency up to 22%



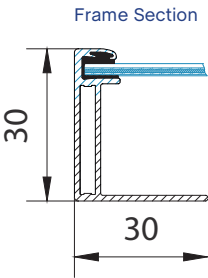
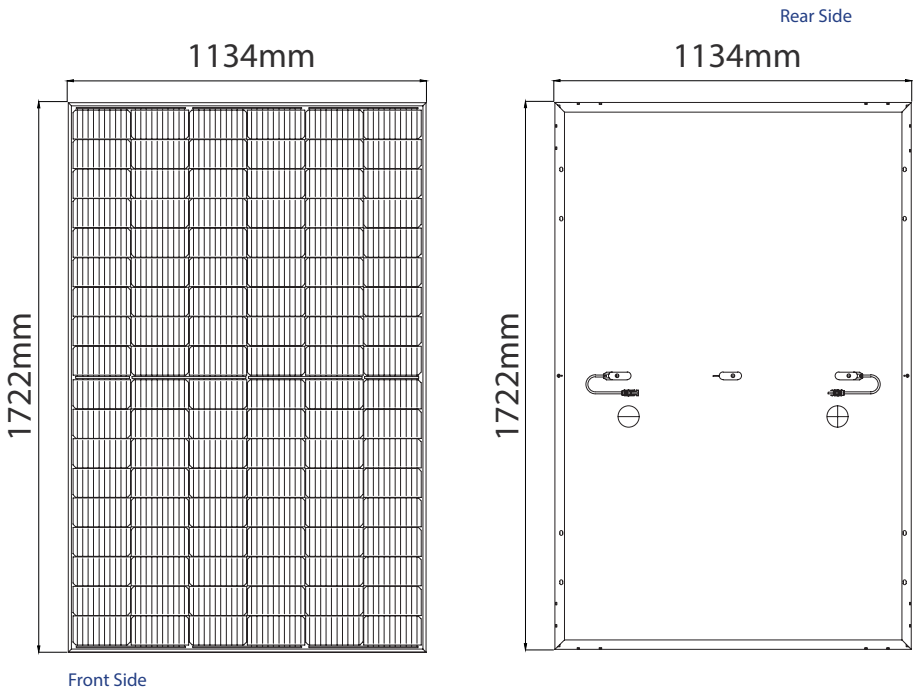
Higher Power Output
Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR



Low Light Performance
Low-light environments allow for optimal performance



Tough Environmental Conditions;
Sand, Acid and Alkali Hailstones 3600/5400 Pa
Mechanical Load Strength

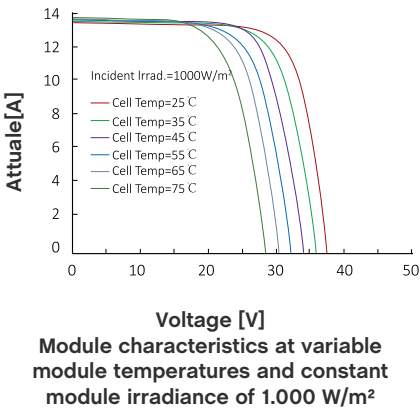
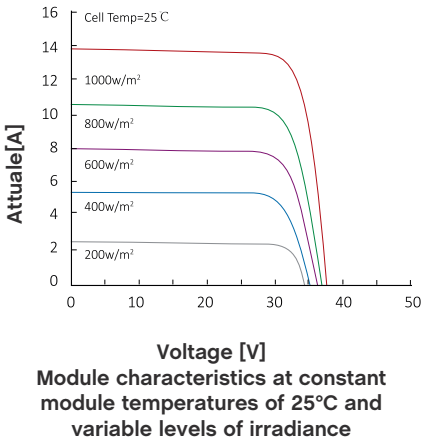


ELECTRICAL SPECIFITION					
Type		415	420	425	430
Test Conditions		STC	STC	STC	STC
Maximum Power (Wp)	Pmax	415	420	425	430
Open Circuit Voltage (V)	Voc	37.80	38.00	38.20	38.40
Short Circuit Current (A)	Isc	13.76	13.87	13.98	14.09
Max. Power Voltage (V)	Vmpp	31.76	31.93	32.10	32.27
Max. Power Current (A)	Impp	13.06	13.15	13.24	13.33
PV Module Efficiency (%)		21.3	21.5	21.8	22.00
Maximum Power Tolarence (Watt)	0~+3W				
Temperature Coefficient of Isc	+ 0.043 %/°C				
Temperature Coefficient of Voc	- 0.24 %/°C				
Temperature Coefficient of Pmax	- 0.30 %/°C				

STC (Standard Test Conditions): 1000 W/m², AM 1.5 , 25 °C
NMOT (Nominal Module Operating Temperature): 800 W/m², Ambient Temperature 20 °C, Wind Speed 1 m/s

MECHANICAL SPECIFITION	
CELL	
Type	TOPCon Monofacial Technology
Piece	120 Pcs
Size	(6x9x2)
Busbar	16 Pcs
Maximum Series Fuse	25A
CONNECTION BOX	
Bypass Diode	3 Pcs
Wire Size Range	4 mm² (IEC)
Cables and Plug connectors	300mm in length,length can be customized
Connector	Mc4 Compatible
Protection Degree	IP68
Rated Current	25A
Rated Voltage	1500 V DC
MODULE SIZE	
Length	1722 mm ± 1 mm
Width	1134 mm ± 1 mm
Frame	30 mm ± 0.5 mm
Weight	21.6 kg ± 5%
GLASS	
Properties	AR (Anti Reflective) Coating Semi Tamped, Low Iron
Front Glass	3.2 mm
MECHANICAL	
Snow Load	+5400 Pa
Wind Load	+3600 Pa
Protection Type	Class II
Fire Class	Type C
Nominal Module Operating Temperature	-40 ~ +85 °C

CURVE I-V





Engineering, Procurement and Construction (EPC)

Supply

Offering the most suitable, most efficient and affordable products on a project basis.

Research

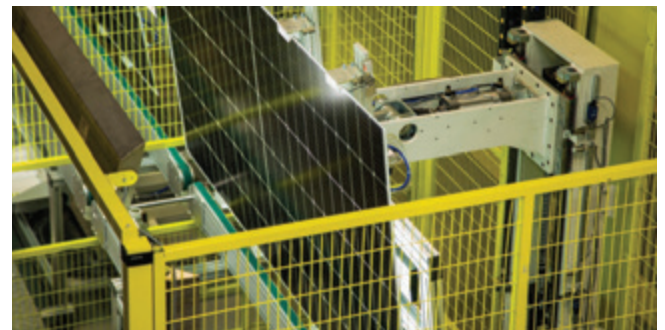
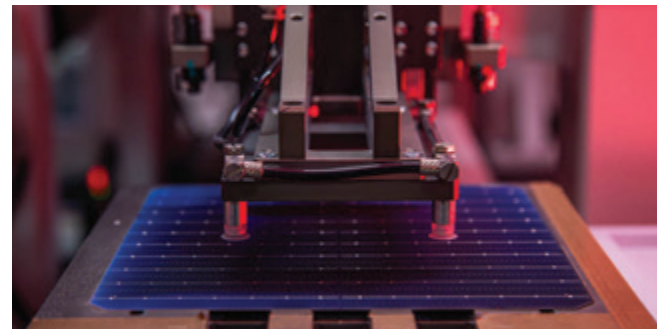
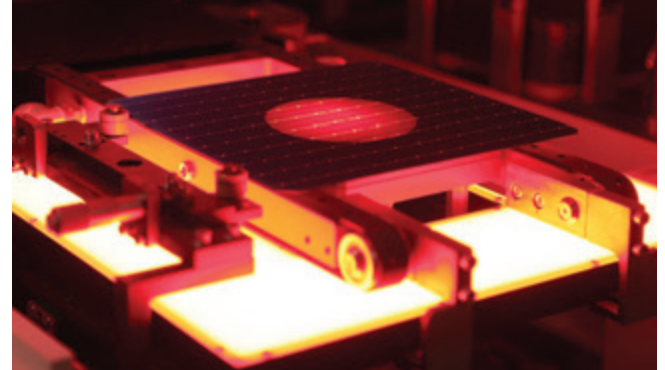
Together with our expert and experienced team, we provide on-site inspection of the roof or land location you have planned to install a power plant.

Planning

The head office plans the purchasing team, sales team and EPC engineering team in a coordinated system.

Project

Discovery and planning of equipment for the power plant site; it is prepared professionally by our engineers, taking into account environmental factors, impact on shading structures, static strength, suitability for infrastructure, financial analysis and production report.



Our Production

16.000 m2 closed production in Tekirdag/ Çerkezköy state of-the-art technology in our factory optimizing the production line with full automation high efficiency photovoltaic (PV) modules are produced, electricity generation systems R&D studies being carried out.

Product demanded in the solar energy sector our diversity (Glass-Glass, Glass-Back Surface), highquality standards, Multi Busbar technology double-sided Half cut cells, 10 years product warranty, and 30 years of linear energy performance and to serve you, our valued customers, with our EPC and After Sales team.

Exploration

Feasibility

Design

Project Planning

Application and
Acceptance
Procedure

Installation and
Commissioning