



## MIO 144 HALF CUT GLASS-GLASS PV SOLAR MODULE

### ENVIRONMENTAL FACTORS



Renewable Energy



Green Industry



Energy - Saving



Zero Carbon Emissions



IEC 61215, IEC 61730, IEC 6280 (PID FREE)

### PV SOLAR PANEL IMPLEMENTATION AREA



HYBRID PROJECT



LAND PROJECT



ROOF PROJECT



AGRIVOLTAIC PROJECT



OFF-GRID PROJECT



#### More Compatibility, More Power

445-450-455 Watts

Enhanced PERC Technology

Design with the Highest Voc and Isc Values and Rear Reflection

25-Year Linear Performance Warranty

10-Year Product Warranty



#### Less Power Loss by Minimising The Shadowing Effect

Half-Cut Technology

Half-Cut PERC Technology Cells Reduce Power Losses (+5 Watts)

Provides Better Shade Performance

Triple J-Box Design



#### Performance Competing with Low Irradiance

High Power Output with M10 Technology

M10 (180x182mm) 10 BB %23.1 and Above Energy Efficiency

High Power Cells for Longer and Better Performance



#### Ideal Choice for Commercial Scale Projects

Reduces Costs and Increases Investment Returns

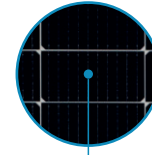
%21.67 Module Efficiency



#### Harsh Environment Condition

Resistance to Sand, Acid, Alkali, and Hailstones,

2400-3600/5400 Pa Mechanical Load



10 BB Half Cell Technology



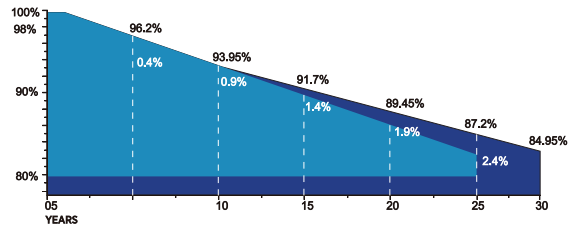
### WARRANTY



Product Warranty



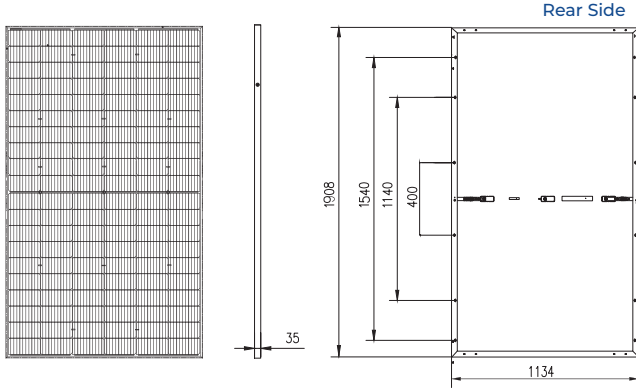
25-year Linear Performance Warranty



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## M10 120 YARIM KESİM CAM-ARKA YÜZEY (BEYAZ) GÜNEŞ PANELİ

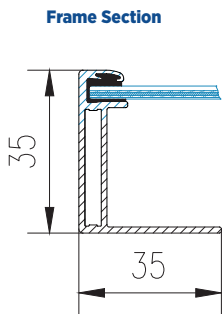


Front Side

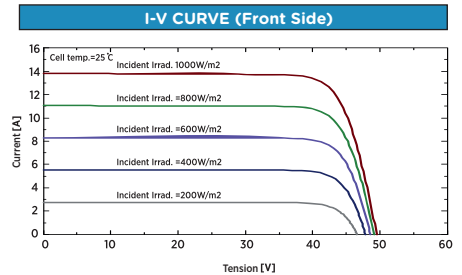
ELECTRICAL SPECIFICATION				
Type		445	450	455
Test Conditions		STC	STC	STC
Maximum Power (W)	Pmax	445	450	455
Open Circuit Voltage (V)	Voc	41.20	41.40	41.60
Short Circuit Current (A)	Isc	13.63	13.68	13.73
Max. Power Voltage (V)	Vmpp	34.40	34.60	34.80
Max. Power Current (A)	Imp	12.98	13.04	13.12
PV Module Efficiency (%)		20.06	20.83	21.06
Maximum Power Tolerance (Watt)		+5W		
Temperature Coefficient of Isc		+ 0.049 %/°C		
Temperature Coefficient of Voc		- 0.28 %/°C		
Temperature Coefficient of Pmax		- 0.37 %/°C		

STC (Standard Test Conditions): 1000 W/m<sup>2</sup>, AM 1.5, 25 °C,

NMOT (Nominal Module Operating Temperature): 800 W/m<sup>2</sup>, Ambient Temperature 20 °C, Wind Speed 1 m/s



MECHANICAL SPECIFICATION	
CELL	
Type	MONO PERC Double Side Technology
Piece	144 Pcs
Size	182 mm x 91 mm
Busbar	10 Pcs
Maksimum Series Fuse	25A / 30A
CONNECTION BOX	
Bypass Diode	3 Pcs
Wire Size Range	3 mm <sup>2</sup> / 6 mm <sup>2</sup> (IEC)
Cable Length	300 / 1200 mm
Connector	Evo2 Staubli
Protection Degree	IP67 / IP68
Rated Current	25A / 30A
Rated Voltage	1500V DC
MODULE SIZE	
Length	1908 mm ±1 mm
Width	1134 mm ±1 mm
Frame	35 mm ±0.5 mm
Weight	
MOUNTING AREA	
Mounting Hole	12 Pcs
Size	9x14 mm Radius
Mounting Ranges	1540/1140/400 ±1 mm
Static Grounding	2 Pcs Diameter: 4 mm
GLASS	
Properties	AR ( Anti Reflective) Coating Semi Tempered, Low Iron
Front Glass	3.2 mm
MECHANICAL	
Snow Load	+5400 Pa
Wind Load	+3600 Pa
Protection Type	Class II
Fire Class	Type 1
Nominal Module Operating Temperature	-40 ~ +85 °C



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