

M10 120 HALF CUT GLASS-WHITE BACKSHEET SOLAR PV

ENVIRONMENTAL FACTORS



Renewable Energy



Green Industry



Energy - Saving



Zero Carbon Emissions



IEC 61215, IEC 61730, IEC 62804 (PID FREE)

PV SOLAR PANEL IMPLEMENTATION AREA



HYBRID PROJECT



LAND PROJECT



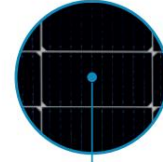
ROOF PROJECT



AGRIVOLTAIC PROJECT



OFF-GRID PROJECT



10 BB Half Cell Technology



More Compatibility , More Power

445-450-455 Watts

Enhanced PERC Technology

Design with the Highest Voc and Isc Values

25-Year Linear Performance Warranty

10-Year Product Warranty



Less Power Loss by Minimalizing 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(182*91mm) 10BB %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

Module Efficiency up to 21,06 %



Harsh Environment Condition

Resistance to Sand, Acid, Alkali, and Hailstones,

3600/5400 Pa Mechanical Load

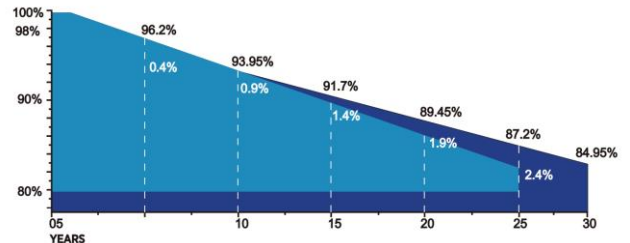
WARRANTY



Product Warranty



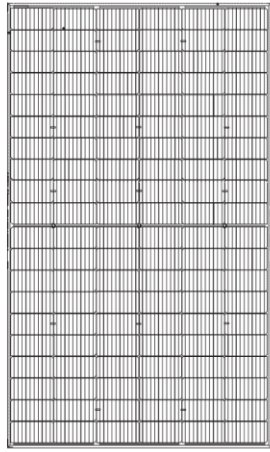
Linear Performance Warranty



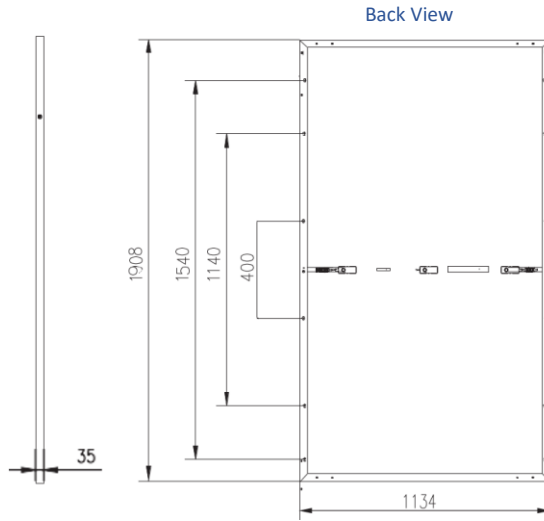
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Front View



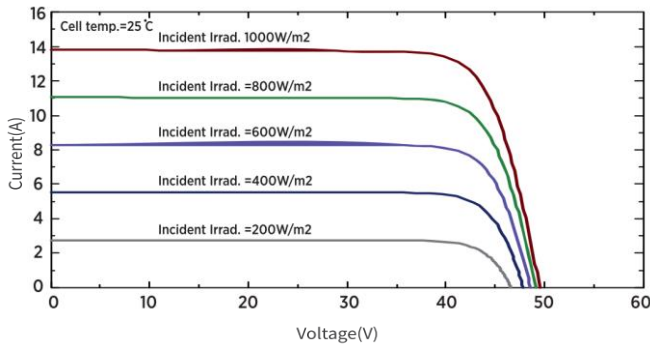
Back View

ELECTRICAL SPECIFICATION

Type		445	450	455
Test Conditions		STC	STC	STC
Maximum Power (Watt)	P _{MAX}	445	450	455
Open Circuit Voltage(V)	V _{OC} (V)	41.20	41.40	41.60
Short Circuit Current (A)	I _{SC} (A)	13.63	13.68	13.73
Max.Power Voltage (Volt)	V _{MPP} (V)	34.40	34.60	34.80
Max.Power Current (Amper)	I _{MPP} (A)	12.98	13.04	13.12
PV Module Efficiency (%)		20.06	20.83	21.06
Maximum Power Tolerance (Watt)		+5W		
Temperature Coefficient of I _{sc}		+ 0.049% / °C		
Temperature Coefficient of V _{oc}		- 0.28% / °C		
Temperature Coefficient of P _{max}		-0.37% / °C		

STC: Cell temperature : 25°C, Irradiance: 1000 W/m², Air mass: 1.5G
 NOTC Air temperature: 20°C, Irradiance: 800 W/m², Air mass: 1.5G, Wind Speed 1 m/s

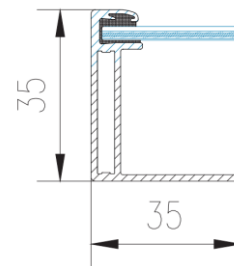
I-V CURVE



MECHANICAL SPECIFICATIONS

CELL	
Type	MONO PERC Bifacial
Piece	120 pcs Half-cut
Size	182mm X 91mm
Busbar	10 Pcs
Maximum Series Fuse	25A/30A
CONNECTION BOX	
Bypass Diode	3 Pcs
Wire Size Range	3mm ² / 6mm ² (IEC)
Cable Length	300 / 1200 mm
Connector	Evo2 Staubli
Protection Degree	IP67 / IP68
Rated Current-Voltage	25A/30A 1500 V 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	9 x 14 mm Radius
Mounting Ranges	1540/1140/400 ± 1 mm
Static Grounding	2 Pcs Diameter: 4mm
GLASS	
Properties	Anti-Reflection Coating, High Transmission, Low Iron, T.Glass
Front Glass	3.2mm
MECHANICAL	
Snow Load	+5400 Pa
Wind Load	+3600 Pa
Protection Type	Class II
Fire Class	Type 1
Nominal Module Operating Temperature	- 40 ~ +85 °C

Frame Cross Section



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