



SOLAR ENERGY

VX144MP

545 - 550W

Monofacial Panel

M10

10 Busbar

MonoPERC

144 Half-Cut Cell



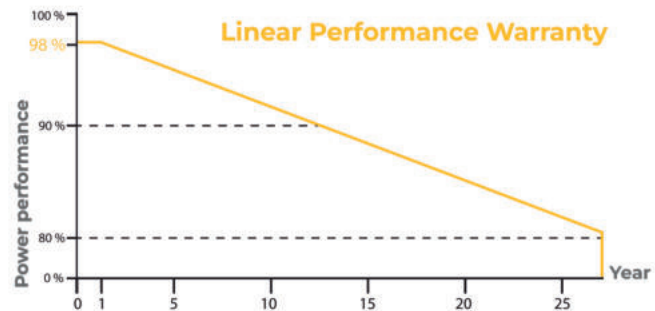
SPECIFICATIONS

- Electroluminescence test: IR Check for microcracks on 3 different stages
- Sun simulator: Up to +5W positive power tolerance class under standard test conditions (STC)
- Salt mist corrosion test in accordance with IEC 61701
- Ammonia corrosion test in accordance with IEC 62716
- Snow load test: 5400 Pa according to IEC 61215
- Wind load test: 2400 Pa according to IEC 61215
- PID resistance in accordance with IEC 62804
- Thermal cycle test: 1000 hours humid heat and 200 thermal cycle test in accordance with IEC 61215
- High performance under low irradiation: performance over 3% under low irradiation conditions (200W/m²)
- QR code: Possibility to see real test results via QR code
- On time production: Production date information printed under the front glass in an unmodifiable manner in order to assure the recent-lyness of the modules.

CERTIFICATES



- IEC 61215-1:2021, IEC 61215-1-1:2021, IEC 61215-2:2021
- IEC 61730-1:2018, IEC61730-2:2018
- IEC 61701:2020
- IEC 62716:2013
- IEC62804-1-1:2020
- ISO 9001:2015



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ELECTRICAL SPECIFICATIONS

Panel Type	VX144MP	
Maximum Power - P_{max} (W)	545	550
Open Circuit Voltage - V_{oc} (V)	49,95	50,10
Short Circuit Current - I_{sc} (A)	13,67	13,69
Maximum Power Voltage - V_{mp} (V)	41,91	42,18
Maximum Power Current - I_{mp} (A)	12,99	13,04
Module Efficiency (%)	22,90%	23,14%
Power Tolerance	0, ~+5W	
Maximum System Voltage	1500V DC	
Maximum Serial Fuse Rating	20 A	

Standard test conditions : Irradiation 1000W/m²,
Cell temperature 25 C, AM=1,5

Power measuring uncertainty : +/- 3%

TEMPERATURE COEFFICIENTS

P_{max} Temperature Coefficient	-0.35 %/°C
V_{oc} Temperature Coefficient	-0.27 %/°C
I_{sc} Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40°C ~ +85°C

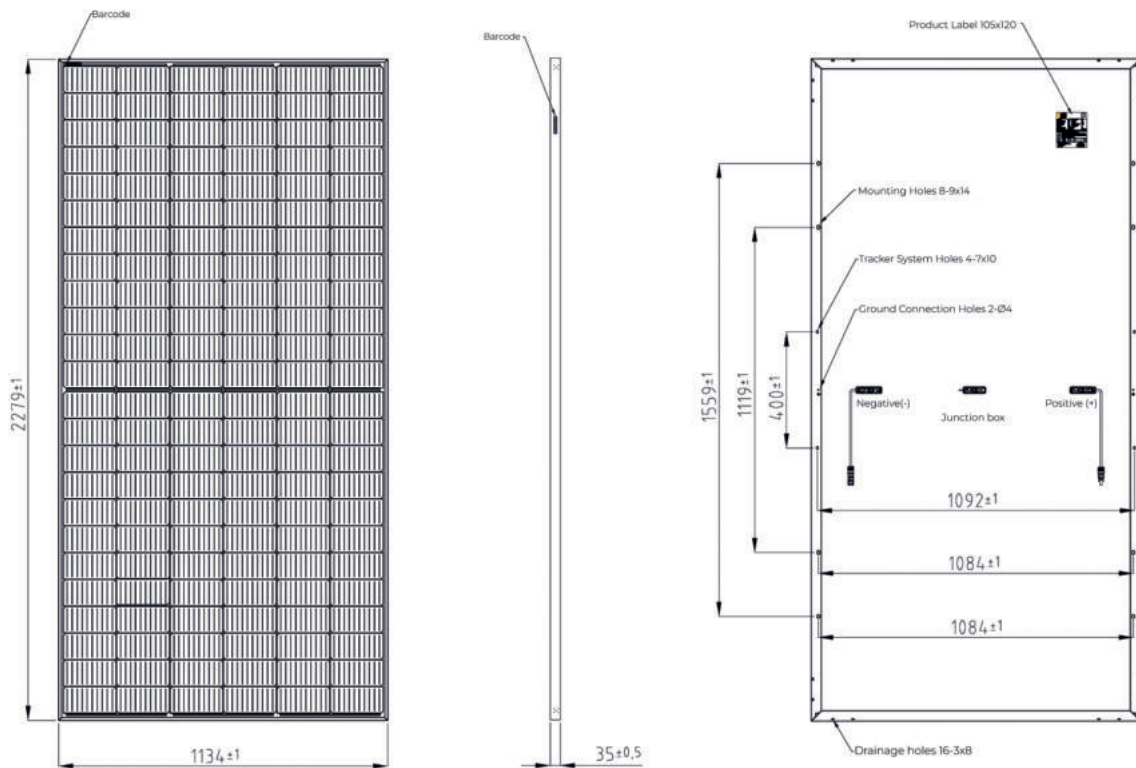
MECHANICAL SPECIFICATIONS

Dimensions	2279 x 1134 x 35 mm
Weight	27,5 kg
Cell type and size	PERC Mono 182 x 91mm (144 pcs)
Glass	3.2 mm AR covered tempered glass, low iron
Frame	15 μ Anodized aluminum 6063-T6 aluminum alloy
Junction box	IP68, 3 Diodes
Cables	4.0mm ² ; 350 mm (vertical) or optional 1300 mm (horizontal)
Connectors	Stäubli MC4 EVO2
Maximum test load	Snow Load 5400Pa / Wind Load 2400Pa

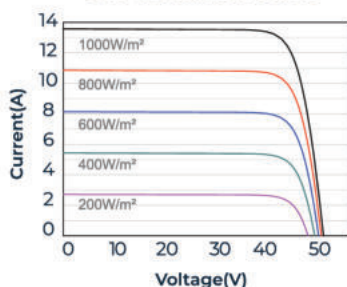
PACKAGING INFORMATION

Container	40'HQ
Quantity on one pallet (pcs)	31
Pallet quantity in one container (pcs)	20
Total panel quantity in one container (pcs)	620

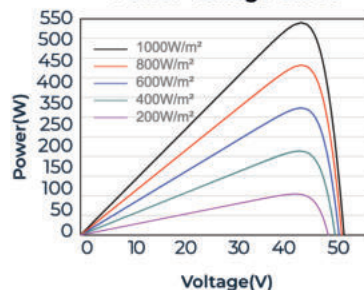
DIMENSIONS (in mm)



Low Irradiation Curve



Power-Voltage Curve



Current – Voltage Curve

