

550W Mono-Crystalline Solar Module

ELECTRICAL PARAMETERS @ STC

Peak Power	P _{max} (W)	550
Maximun Power Voltage	V _{mp} (V)	41.60
Maximun Power Current	I _{mp} (A)	13.23
Open-circuit voltage	V _{oc} (V)	49.80
Short-circuit current	I _{sc} (A)	13.99
Module Efficiency	η(%)	21.28

Values at standard test conditions STC (Air mass AM1.5, Irradiance 1000W/sqm, Cell temperature 25°C)
Power Measurement Tolerance: 0 / +3%

MECHANICAL DATA

Solar Cell (type / dimension)	Mono-crystalline solar cells / 182*91mm
Cell Amount	72 x 2
Module Dimension (L x W x H)	2279mm x 1134mm x 35mm
Weight	29 kg
Frame (material)	Aluminum Alloy
Front Glass (material / thickness)	High transmission low-iron tempered glass / 3.2mm
Backsheet (material)	Fluoropolymer coating / PET / polyolefin
Mechanical Load	Wind/Snow 2400/5400 Pa
Junction Box (protection degree)	IP 68
Output Cables	4mm ² , Landscape: N 1400mm/P 1400mm Portrait: N 200mm/P 300mm
Connector	MC4 compatible

TEMPERATURE COEFFICIENTS

Nominal Operating Cell Temp. (NOCT)	41 +/- 3°C
Voltage Temperature Coefficient (VOC)	-0.28% / °C
Current Temperature Coefficient (Isc)	0.05% / °C
Power Temperature Coefficient (Pmax)	-0.34% / °C

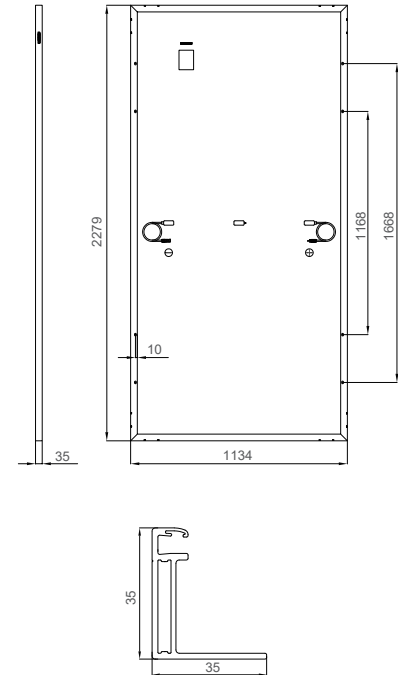
MAXIMUM RATINGS

Operational Temperature	-40°C to +85°C
Maximun System Voltage	1500V
Max Series Fuse Rating	25A

WARRANTY

Warranty	25 years Power Output Warranty 10 years 90%, 25 years 85% 10 years Product Warranty on Material
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MECHANICAL DRAW



I-V CURVE

