

# VALANCE MP 72



High efficiency - **19.58%**



Mono-crystalline Silicon PERC Solar Cells With **High Transmission And Textured Glass**



**Maximizing the kWh Output Per Unit Area**



Tight **Positive Power** Tolerance of **0W** to **+5W**



With **stand wind** loads of up to **2.4 kPa** and **snow** loads of up to **5.4 kPa**



**German Technology** Manufacturing Facility

## WARRANTIES

- 10-year limited product warranty\*
- Limited power warranty\*: 10 years at 97.5% of the minimal rated power output, 25 years at 83.1% of the minimal rated power output.
- Withstand wind loads of up to 2.4 kPa and snow loads of up to 5.4 kPa, confirming mechanical stability.

\*in compliance with our Warranty Terms and Conditions

## INTERNATIONAL & NATIONAL CERTIFICATIONS

- IEC 61215, IEC 61730-1, IEC 61730-2, IEC 61701-Salt Mist Corrosion Testing, IEC 62804 PID POLY/POLY PERC ,IEC 62804 PID MONO/MONO PERC.



# VALANCE MP 72

## ELECTRICAL PERFORMANCE

### Electrical parameters at Standard Test Conditions (STC)

Module type		PM72 Series							
Power output	P <sub>max</sub>	W	330	340	350	360	370	380	
Power output tolerances	ΔP <sub>max</sub>	Positive Tolerance Only							
Module efficiency	η <sub>m</sub>	%	17.00	17.52	18.03	18.55	19.06	19.58	
Voltage at P <sub>max</sub>	V <sub>mpp</sub>	V	37.70	38.10	38.50	38.90	39.30	39.70	
Current at P <sub>max</sub>	I <sub>mpp</sub>	A	8.76	8.93	9.10	9.26	9.42	9.58	
Open-circuit voltage	V <sub>oc</sub>	V	46.90	47.15	47.35	47.65	48.05	48.45	
Short-circuit current	I <sub>sc</sub>	A	9.35	9.50	9.60	9.70	9.80	9.90	

STC: 1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.  
Average relative efficiency reduction of 5% at 200W/m<sup>2</sup> according to EN 60904-1.

## THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	46+/-2
Temperature coefficient of P <sub>max</sub>	γ	%/°C	-0.38
Temperature coefficient of V <sub>oc</sub>	β <sub>Voc</sub>	%/°C	-0.27
Temperature coefficient of I <sub>sc</sub>	α <sub>Isc</sub>	%/°C	0.0038
Temperature coefficient of V <sub>mp</sub>	β <sub>Vmpp</sub>	%/°C	-0.45

## OPERATING CONDITIONS

Max. system voltage	1000V <sub>DC</sub>
Max. series fuse rating	20A
Limiting reverse current	20A
Operating temperature range	-40°C to 85°C
Max. static load, front (e.g., snow and wind)	5400Pa
Max. static load, back (e.g., wind)	2400Pa
Max. hailstone impact(diameter / velocity)	25 mm / 23 m/s

## CONSTRUCTION MATERIALS

Front cover (material / thickness)	Low-iron Tempered Glass / 3.2 mm
Cell (quantity / material / dimensions / number of busbars)	72 / mono-crystalline silicon PERC / 157 mm x 157 mm / 5
Encapsulate (material)	PID free ethylene vinyl acetate (EVA)
Frame (material / color / anodization color / edge sealing)	Anodized Aluminum Alloy / Silver / Clear / Silicone Or Tape
Junction box (protection degree)	TUV certified IP67 rated / Weatherproof PPO enclosure with 3 bypass diodes
Cable (length / cross-sectional area)	TUV certified cable with length 1.25 m / 4mm <sup>2</sup>
Plug connector (type / protection degree)	MC4 0r compatible

**CAUTION:** READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT

### Note :

- Soleos Solar Energy PVT. LTD. reserves the right to change the specification with prior notice:
- All measurements and warranty/guarantee applicability under standard test conditions (1000W/m<sup>2</sup>, 25°C, AM 1.5), kindly refer our guarantee/warranty policy for further details.

Soleos Solar GmbH  
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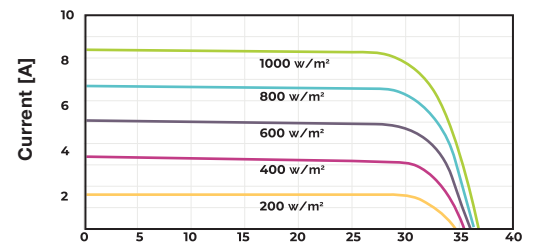
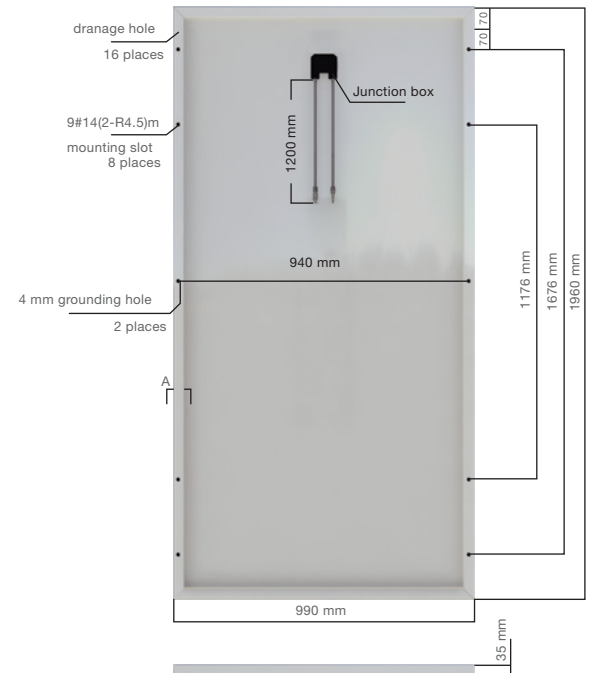
## GENERAL CHARACTERISTICS

Dimensions (L / W / H)	1960 mm / 990 mm / 35 mm
Weight	21 kg

## PACKAGING SPECIFICATIONS

Number of modules per pallet	30
Number of pallets per 20' Vehicle	10
Packaging box dimensions(L / W / H)	1975 mm / 1060 mm / 1005 mm
Box weight	720 kg

## BACK VIEW OF MODULE



Module Characteristics at constant module temperatures of 25°C and variable levels of irradiance