



# High Voltage Series

## 180Wp



Water pump use



Off-Grid



High Module efficiency

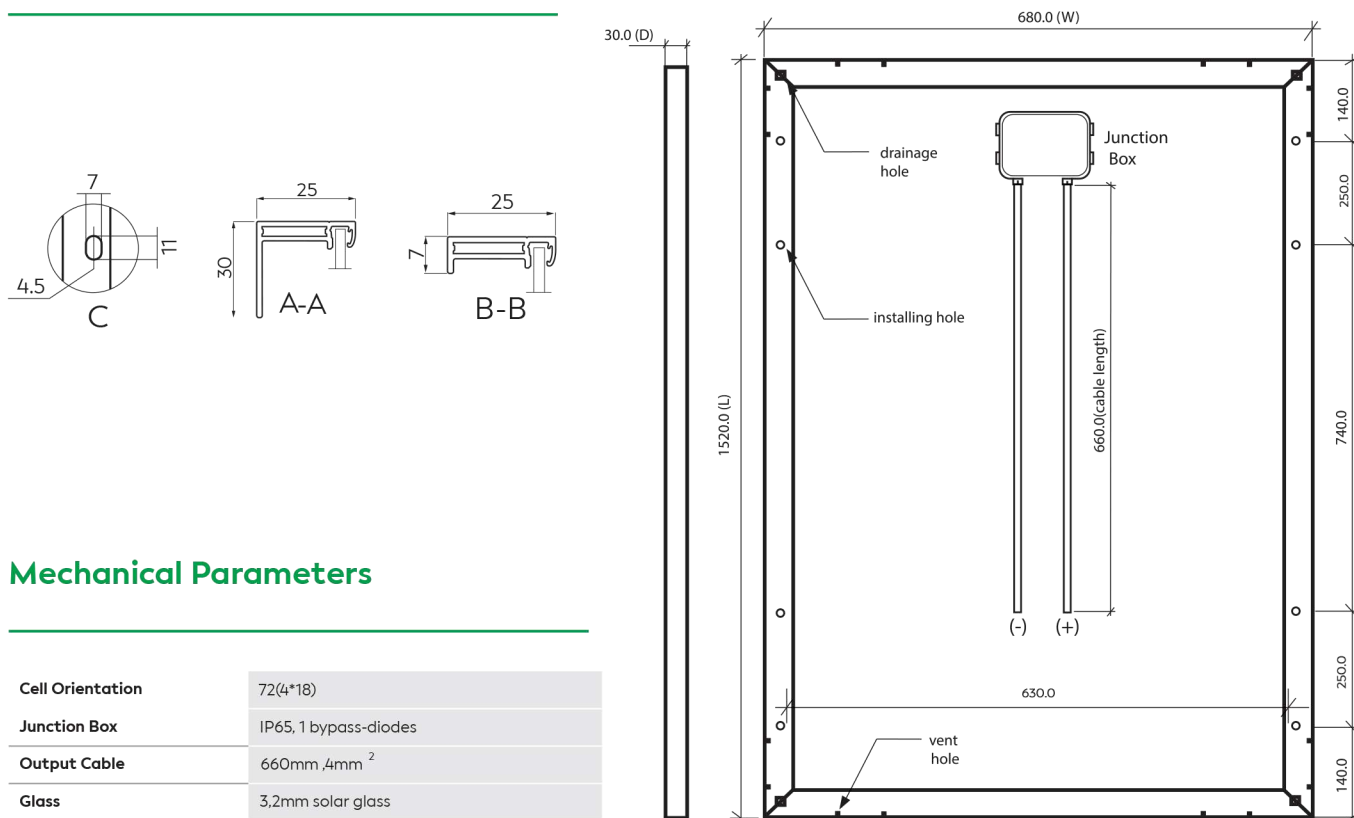


5 Year Warranty for  
Materials and Processing

**17,41%**  
MAX MODULE  
EFFICIENCY

**0~+5W**  
POWER  
TOLERANCE

## Diagram



## Mechanical Parameters

Cell Orientation	72(4*18)
Junction Box	IP65, 1 bypass-diodes
Output Cable	660mm ,4mm <sup>2</sup>
Glass	3,2mm solar glass
Frame	Anodized aluminium
Weight	12kg
Dimensions (mm)	1520*680*30

## Electrical Characteristics

Module Type	Testing Condition	Maximum Power	Open circuit voltage(V)	Short circuit current (A)	Voltage at Maximum power (V)	Current at Maximum Power (A)	Module Efficiency
180Wp	STC	180	47.54	4.94	38,3	4,7	17,41%

## Operating Parameters

Operational Temp	minus 40°C to 85°C
Power Output Tolerance	0-+5Wp
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	15A
Nominal Operating Cell Temperature	48°C +-2°C

## Temperature Ratings STC

Temperature Coefficient of $i_s$	(+)0,05%/K
Temperature Coefficient of $V_{oc}$	(-)0,37%/K
Temperature Coefficient of $P_{max}$	(-)0,35%/K

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