

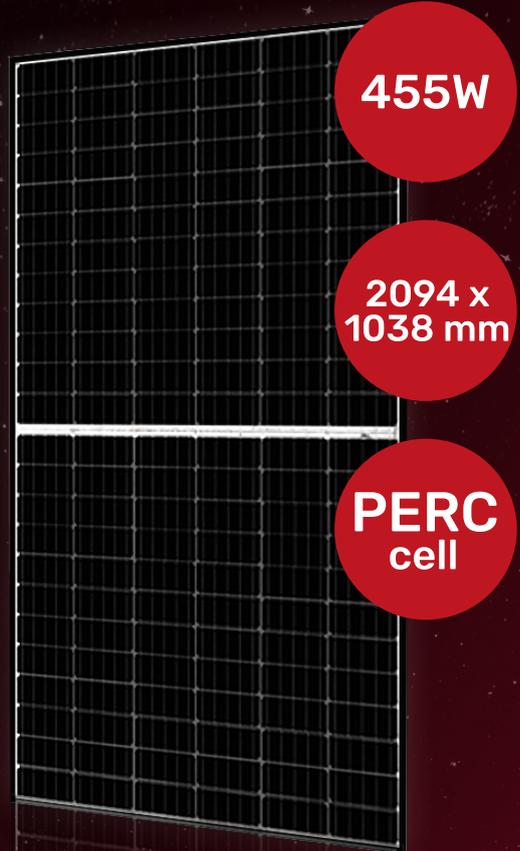


REDSHIFT

JMPV-HM6HBM172-455W

MONOCRYSTALLINE
SOLAR MODULE
PERC CELLS

Split cell technology uses shorter cells than conventional panels, connected internally in two series of strings. This reduces current losses and means that if there are shadows, they do not cancel out the entire output.



455W

2094 x 1038 mm

PERC cell



QUALITY BENEFITS

Half Cut cell with PERC technology

The 9BB split-cell technology reduces internal power loss and improves overall component power by dissipating heat which prevents the production of hot-spots.

Higher power output and efficiency

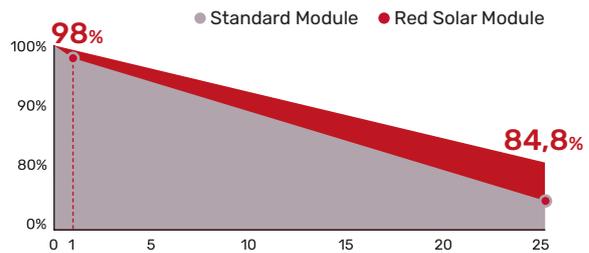
144 cells of 166*83 mm (M6), reaching a maximum power of 455W and an efficiency of 20.93%.

Load Capacity

Certified to withstand extreme wind (2400 Pa) and snow loads (5400 Pa).

PID protection

Excellent anti-PID performance to ensure the stability of the module's output power.



*Please refer to the standard product warranty for details.

SPECIFICATIONS

Electrical parameters STC*

Max. Power (Pmax)	455W
Module Efficiency (%)	20,93%
Max Power Voltage (Vmp)	41,79V
Max Power Current (Imp)	10,89A
Open Circuit Voltage (Voc)	49,60V
Short Circuit Current (Isc)	11,68A
Operating temperature (°C)	-40°C~+85°C
Max System Voltage (V)	1500V
Max Series Fuse Rating	20A
Tolerance	0 ~ +5%
Front face static load (Snow)	5400Pa
Rear face static load (Wind)	2400Pa

NMOT**

Max. Power (Pmax)	341,20W
Max Power Voltage (Vmp)	38,95V
Max Power Current (Imp)	8,76A
Open Circuit Voltage (Voc)	47,01V
Short Circuit Current (Isc)	9,47A

Temperature

Temp. Coef. Pmax (%)/°C	-0,347%/°C
Temp. Coef. Voc (%)/°C	-0,263%/°C
Temp. Coef. Isc (%)/°C	0,057%/°C
NOCT	42,5°C ±2°C

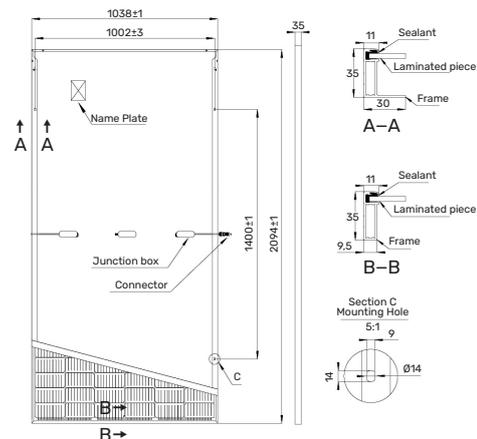
Certifications and warranty

Product warranty	12 years of operation
Power output warranty ¹	25 years linear power output

Mechanical parameters

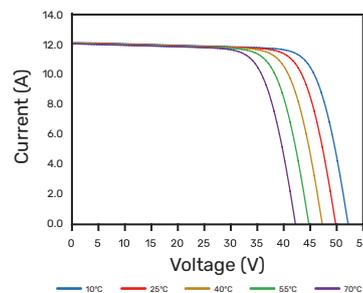
Cell type	P Type/M6/PERC/9BB/Half-Cell
Number of cells	144 (6x12X2)
Cell dimensions	166x83mm
Dimensions (mm)	2094x1038x35 mm
Weight (kg)	24,5±1.0kg
Junction box	IP68
Output cable	4mm ² , (+)300mm, (-)300mm
Frame	Anodised aluminium 6063-T5/6005-T6(Black)
Glass	3.2mm coated tempered glass
Encapsulating material	EVA

Diagrams

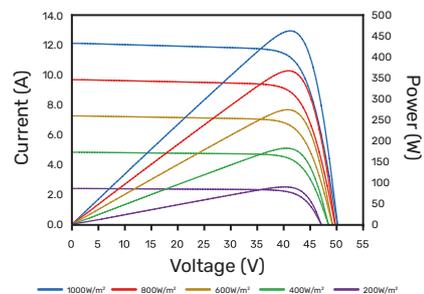


I-V curves

Current-voltage curve



Power-voltage and current-voltage curve



*STC: Under standard test conditions (STC) of 1000 W/m² irradiance, AM 1.5 spectrum and module temperature of 25°C.

**NMOT : Nominal cell operating temperature (NMOT), irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/s.

RED
SOLAR
PRODUCT LINE

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