

## IBEX 120MHC-EiGER

FULL BLACK

450/455/460

IBEX HIGH EFFICIENCY MONOCRYSTALLINE SOLAR MODULES WITH HALF CELL TECHNOLOGY

0+5

Positive power tolerance (0+5W) guaranteed



High performance under low light.  
Works at cloudy, rainy days



The monolithic per cell structure technology (low resistance characteristics) is adopted (the maximum conversion efficiency of modules is up to 21.25%)



EXTREME WEATHER RATING. High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (2400 Pa)



Reduced resistance between cells Less micro cracks, higher output power



SUPER STRONG FRAME. The overflow tank is waterproof with double layers. Aluminum frame enhances the mechanical load strength by 10%

- IEC61215(2016), IEC61730(2016)
- ISO9001:2015: Quality Management System
- ISO45001:2018 Occupational health and safety management systems



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## MONOCRYSTALLINE SOLAR MODULE

### ELECTRICAL DATA AT STC

Module Type	450W		455W		460W	
	STC	NOCT	STC	NOCT	STC	NOCT
Rated power P <sub>mp</sub> [Wp]	450	334.5W	455	338.2W	460	339.0W
P <sub>mp</sub> range to	0/+5W		0/+5W		0/+5W	
Rated current I <sub>mp</sub> [A]	12.94A	10.36A	13.02A	10.43A	13.08A	10.35A
Rated voltage V <sub>mp</sub> [V]	34.79V	32.29V	34.95V	32.45V	35.20V	32.74V
Short-circuit current I <sub>sc</sub> [A]	13.74A	11.07A	13.83A	11.15A	13.78A	10.88A
Open-circuit voltage U <sub>oc</sub> [V]	41.40V	38.77V	41.60V	38.95V	41.80V	39.08V
Efficiency at STC up to	20.78%		21.01%		21.25%	
Application Class	Class A		Class A		Class A	

### LIMITING VALUES

Max. system voltage [V]	1500V DC (IEC)
Max. return current [I]	25A
Operating Temperature	- 40 to +85°C
Max. tested pressure load [Pa]2	5400
Max. tested tensile load [Pa]2	2400

### TEMPERATURE COEFFICIENT

I <sub>sc</sub>	V <sub>oc</sub>	P <sub>max</sub>
0.045% /°C	-0.285% /°C	-0.35% /°C

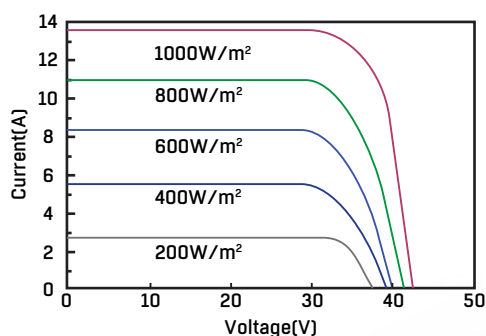
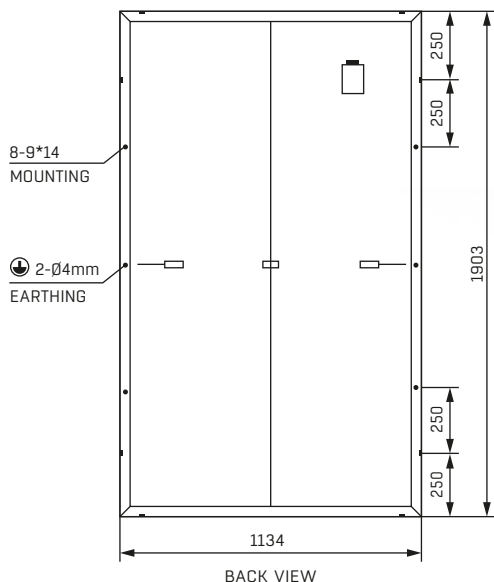
### SPECIFICATIONS

Number of cells	120 (6 x 20)   182x91mm
Dimensions	1903 x 1134 x 30 mm
Weight	23.5 kg
Front-side glass	3.2 mm tempered Low Iron Glass
Frame	Stable, anodised aluminium frame, black
Junction box	Split Junction Box (IP68)
Cable	4 mm <sup>2</sup> , +350mm,-350mm Cust.Length
Diodes	3 Diodes
Plug-in connection	MC4 Compatible
Hail test (max. hailstrom)	Ø45mm   23 m/s   83 km/h

### PACKING CONFIGURATION

Container	40 HQ	Pieces Per Pallet	36
Pallets Per container	24	Pieces per Container	864

The specifications and average values can vary slightly. Relevant is the corresponding data of the individual measurement. Specifications are subject to change without notice. Measurement tolerance depending on equipment: rated power +/- 3%, other values +/- 10%. All information given in this data sheet corresponds to DIN EN 50380. A potential light-induced degradation of the power after commissioning is not considered here. Further information in the installation manuals. 1 The specific warranty conditions are given under [www.swissenergy-solar.ch](http://www.swissenergy-solar.ch) | 2 Horizontal mounted | 3 Tolerance L/W = +/- 3 mm. H +/- 2mm, the dimensions given in the order confirmation will be decisive | 4 Location and dimensions of holes on request



### WARRANTY

**20 YEARS**

PRODUCT WARRANTY

**30 YEARS**

POWER WARRANTY