

**IBEX**

HIGH TECHNOLOGY SOLAR MODULES

**IBEX 132BF-MHC EIGER**

485/490/495/500/505

**10BB** HALF-CELL MONO PV MODULE

BIFACIAL HIGH TECHNOLOGY GLASS SOLAR MODULES

SWISS SOLAR

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 perc cell structure technology (low resistance characteristics) is adopted ( the maximum conversion efficiency of modules is up to 21.27 %)



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



Combines high efficiency PERC bifacial cells with a dual glass construction, which can convert light that hits the back of the module into electricity, generating up to 25% more energy

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



# IBEX 132BF-MHC-EiGER 485-505

## MONOCRYSTALLINE SOLAR MODULE

### ELECTRICAL DATA AT STC

	485	490	495	500	505
Rated power P <sub>mpp</sub> [Wp]	485	490	495	500	505
P <sub>mpp</sub> range to	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
Rated current I <sub>mpp</sub> [A]	12.10A	12.17A	12.24A	12.31A	12.38A
Rated voltage V <sub>mpp</sub> [V]	40.08V	40.26V	40.44V	40.62V	40.79V
Short-circuit current I <sub>sc</sub> [A]	12.99A	13.06A	13.13A	13.20A	13.27A
Open-circuit voltage U <sub>oc</sub> [V]	48.34V	48.51V	48.67V	48.83V	48.98V
Efficiency at STC up to	20.42%	20.64%	20.85%	21.06%	21.27%
Application Class	Class A	Class A	Class A	Class A	Class A

Specification as per STC (Standard test conditions): irradiance 1000 W/m<sup>2</sup> | module temperature 25°C | Air Mass = 1.5

### ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN

5%	Maximum Power At STC (P <sub>max</sub> )	509W	515W	520W	525W	530W
	Module Efficiency STC (%)	21.45%	21.67%	21.89%	22.11%	22.31%
15%	Maximum Power At STC (P <sub>max</sub> )	558W	564W	569W	575W	581W
	Module Efficiency STC (%)	23.49%	23.73%	23.97%	24.21%	24.46%
25%	Maximum Power At STC (P <sub>max</sub> )	606W	613W	619W	625W	631W
	Module Efficiency STC (%)	25.53%	25.79%	26.06%	26.32%	26.57%

STC: 1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AM1.5.

### 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] <sup>2</sup>	5400
Max. tested tensile load [Pa] <sup>2</sup>	2400

### TEMPERATURE COEFFICIENT

I <sub>sc</sub>	V <sub>oc</sub>	P <sub>max</sub>
0.05% /°C	-0.28% /°C	-0.36% /°C

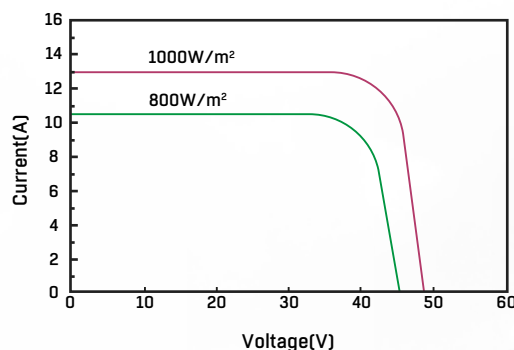
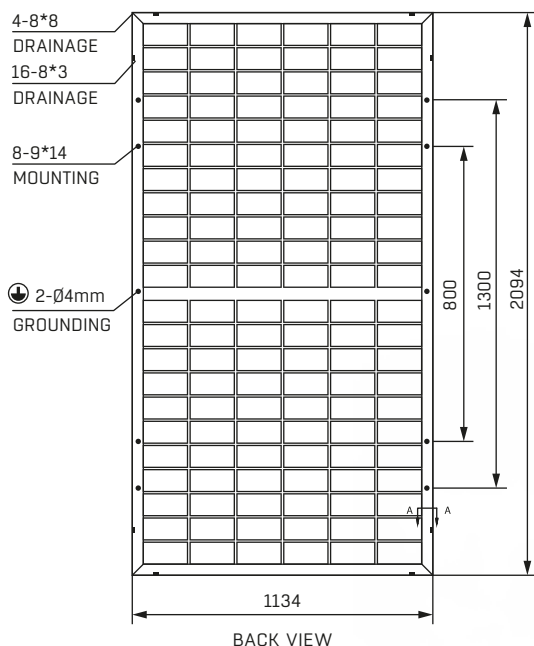
### SPECIFICATIONS

Number of cells	132 (6 x 22)   182x91 mm
Dimensions	2094x1134x35 mm
Weight	25.5 kg
Front-side glass	2.0/2.0 mm <sup>tempered highly transp. anti-reflection solar glass</sup>
Frame	Stable, anodised aluminium frame, black
Junction box	Split Junction Box (IP68)
Cable	4 mm <sup>2</sup> , +300mm,-400mm Cust.Length
Diodes	3 Diodes
Plug-in connection	MC4 Compatible
Hail test (max. hailstrom)	∅45mm   23 m/s   83 km/h

### PACKING CONFIGURATION

Container	40 HQ	Pieces Per Pallet	31
Pallets Per container	22	Pieces per Container	682

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

**25 YEARS**  
PRODUCT WARRANTY

**30 YEARS**  
POWER WARRANTY