

IBEX HIGH TECHNOLOGY SOLAR MODULES

IBEX 132 MHC-EIGER
BIFACIAL GLASS GLASS
480/485/490/495/500

10BB HALF-CELL MONO BIFACIAL PV MODULE

BIFACIAL HIGH TECHNOLOGY GLASS GLASS SOLAR MODULES

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 20.98%)

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 132 MHC-EIGER 480-500

MONOCRYSTALLINE BIFACIAL SOLAR MODULE

ELECTRICAL DATA AT STC

	480	485	490	495	500
Rated power P _{mpp} [Wp]	480	485	490	495	500
P _{mpp} range to	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
Rated current I _{mpp} [A]	12.03A	12.10A	12.17A	12.24A	12.31A
Rated voltage V _{mpp} [V]	39.90V	40.08V	40.26V	40.44V	40.62V
Short-circuit current I _{sc} [A]	12.92A	12.99A	13.06A	13.13A	13.20A
Open-circuit voltage U _{oc} [V]	48.18V	48.34V	48.51V	48.67V	48.83V
Efficiency at STC up to	20.14%	20.35%	20.56%	20.77%	20.98%
Application Class	Class A	Class A	Class A	Class A	Class A

Specification as per STC (Standard test conditions): irradiance 1000 W/m² | module temperature 25°C | Air Mass = 1.5

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power At STC (P _{max})	504W	509W	515W	520W	525W
	Module Efficiency STC (%)	21.14%	21.36%	21.58%	21.80%	22.02%
15%	Maximum Power At STC (P _{max})	552W	558W	564W	569W	575W
	Module Efficiency STC (%)	23.16%	23.40%	23.64%	23.88%	24.12%
25%	Maximum Power At STC (P _{max})	600W	606W	613W	619W	625W
	Module Efficiency STC (%)	25.17%	25.43%	25.70%	25.96%	26.22%

STC: 1000W/m² 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] ²	5400
Max. tested tensile load [Pa] ²	2400

TEMPERATURE COEFFICIENT

I _{sc}	V _{oc}	P _{max}
0.05% /°C	-0.28% /°C	-0.36% /°C

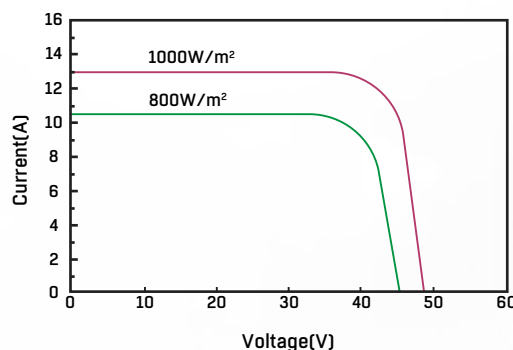
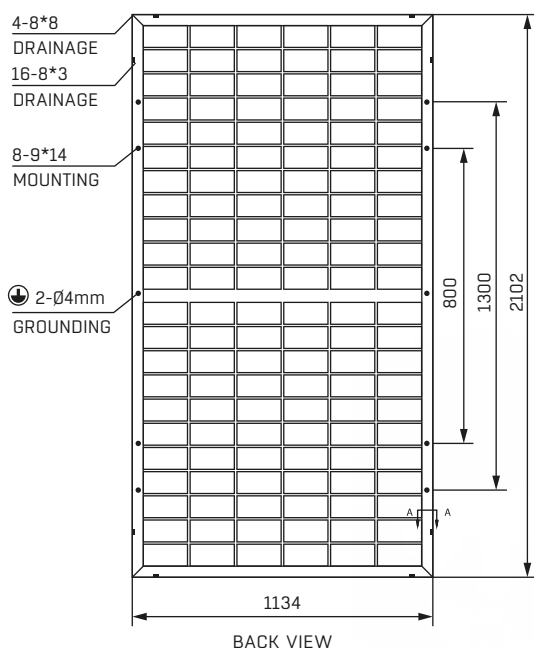
SPECIFICATIONS

Number of cells	132 (6 x 22) 182x91 mm
Dimensions	2102x1134x35 mm
Weight	28.5 kg
Front-side glass	2.0/2.0 mm <small>tempered highly transp. anti-reflection solar glass</small>
Frame	Stable, anodised aluminium frame, black
Junction box	Split Junction Box (IP68)
Cable	4 mm ² , +300mm,-400mm 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	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 | 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

swiss solar

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