

## IBEX

HIGH TECHNOLOGY  
SOLAR MODULES

### IBEX 108BF MHC-EIGER

410

### 10BB HALF-CELL MONO PV MODULE

BIFACIAL HIGH TECHNOLOGY  
TRANSPARENT BACKSHEET 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 20.97%)



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 108BF-MHC-EIGER 410

## MONOCRYSTALLINE SOLAR MODULE

### ELECTRICAL DATA AT STC/NOCT

Module Type	410W	
	<b>STC</b>	<b>NOCT</b>
Rated power P <sub>mp</sub> [Wp]	410	304.8
P <sub>mp</sub> range to	0/+5W	
Rated current I <sub>mp</sub> [A]	13.04A	10.44A
Rated voltage V <sub>mp</sub> [V]	31.46V	29.20V
Short-circuit current I <sub>sc</sub> [A]	13.85A	11.16A
Open-circuit voltage U <sub>oc</sub> [V]	37.45V	35.05V
Efficiency at STC up to	20.97%	
Application Class	Class A	

### ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (Reference to 440W Front)

P <sub>max</sub> gain	P <sub>max</sub> /W	V <sub>mp</sub> /V	I <sub>mp</sub> /A	V <sub>oc</sub> /V	I <sub>sc</sub> /A
5%	431.00	31.46	13.70	37.45±3%	14.55±3%
15%	472.00	31.46	15.01	37.45±3%	15.94±3%
15%	513.00	31.46	16.31	37.45±3%	17.32±3%

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]	30A
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

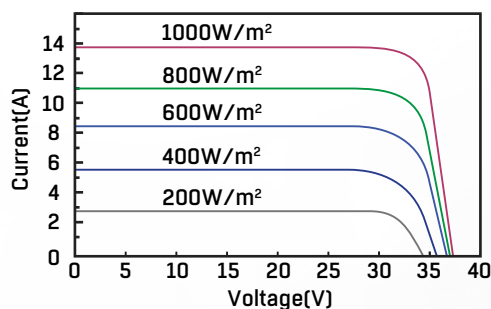
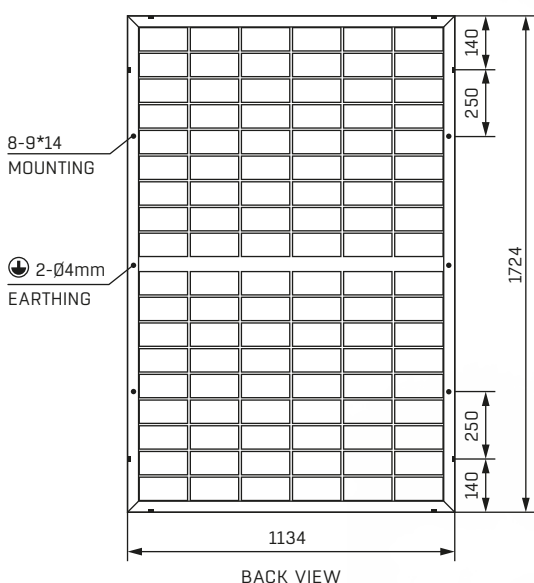
### SPECIFICATIONS

Number of cells	108 (6x18)   182x91mm
Dimensions	1724 x 1134 x 35 mm
Weight	24.7 kg
Front-side glass	2.0/2.0 mm tempered highly transp. anti-reflection solar 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	31
Pallets Per container	20	Pieces per Container	620

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