

IBEX 120MHC-EIGER FULL BLACK

440/445

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 20.60%)



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. Aluminium 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

Rated power P _{mpp} [Wp]	440	445
P _{mpp} range to	0/+5W	0/+5W
Rated current I _{mp} [A]	12.77A	12.86A
Rated voltage V _{mpp} [V]	34.48V	34.63V
Short-circuit current I _{sc} [A]	13.76A	13.83A
Open-circuit voltage U _{oc} [V]	41.03V	41.18V
Efficiency at STC up to	20.40%	20.60%
Application Class	Class A	Class A

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

ELECTRICAL DATA AT NOCT

Power at P _{mpp} [Wp]	330	334
Rated current I _{mp} [A]	10.54	10.62
Rated voltage V _{mpp} [V]	31.32	31.47
Short-circuit I _{sc} [A]	11.12	11.20
Open-circuit voltage U _{oc} [V]	37.60	37.75

NOCT (nominal operating cell temperature): irradiance 800 W/m² | Wind speed 1 m/sec | Ambient temperature | 20°C cell operating temperature 45 +/-2°C | Air Mass = 1.5

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}
0.049% /°C	-0.29% /°C	-0.39% /°C

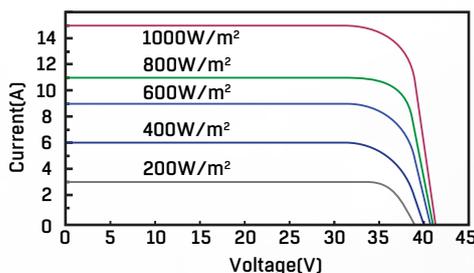
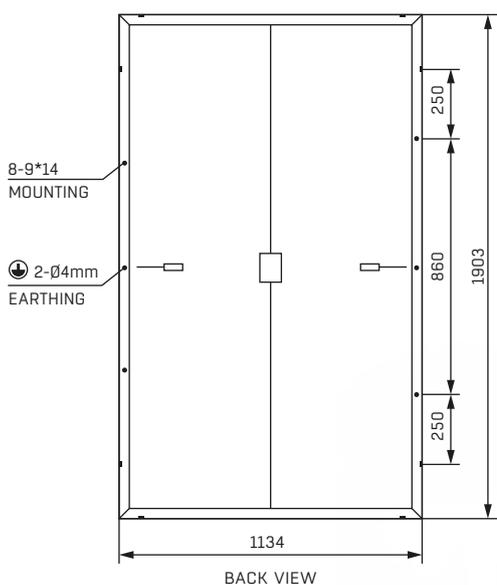
SPECIFICATIONS

Number of cells	120 (6 x 20) 182x182 mm
Dimensions	1903x1134x35 mm
Weight	22.7 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 ² , +400mm,-200mm 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	24	Pieces per Container	744

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

20 YEARS
PRODUCT WARRANTY

30 YEARS
POWER WARRANTY