

TRANSPARENT BACKSHEET

IMPROVED LOAD

pressure **6200**

tensile **4200**


TESTED

TOPCON CELLS INSIDE


16BB
HALF-CELL MONO PV MODULE

IBEX 108BF-MHC-TOPCON
410/415/420/425/430


IBEX HIGH EFFICIENCY MONOCRYSTALLINE SOLAR MODULES WITH TOPCON CELLS TECHNOLOGY



BETTER HIGH-TEMPERATURE POWER GENERATION PERFORMANCE



HIGHER DOUBLE-SIDED REVENUE



BETTER LOW LIGHT PERFORMANCE



LOWER COST OF KILOWATT-HOUR ELECTRICITY (LCOE)



LOWER ATTENUATION



HIGH TECHNOLOGY SOLAR MODULES

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



IBEX 108BF-MHC-TOPCON 410-430

MONOCRYSTALLINE SOLAR MODULE

ELECTRICAL DATA AT STC

Module Type	410W	415W	420W	425W	430W
	STC	STC	STC	STC	STC
Rated power P _{mpp} [Wp]	410	415	420	425	430
P _{mpp} range to	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
Rated current I _{mpp} [A]	13.17A	13.25A	13.33A	13.41A	13.49A
Rated voltage V _{mpp} [V]	31.13V	31.32V	31.51V	31.70V	31.88V
Short-circuit current I _{sc} [A]	13.91A	13.99A	14.07A	14.15A	14.23A
Open-circuit voltage U _{oc} [V]	37.73V	37.92V	38.11V	38.30V	38.49V
Efficiency at STC up to	21.00%	21.25%	21.51%	21.76%	22.02%
Application Class	Class A	Class A	Class A	Class A	Class A

PARAMETER OF DOUBLE-SIDED POWER GENERATION (430W)

	P _{max} /W	V _{mpp} /V	I _{mpp} /A	V _{oc} /V	I _{sc} /A
P _{max} gain					
5%	451	31.88	14.16	38.49	14.94
15%	494	31.88	15.51	38.49	16.36
25%	537	31.88	16.86	38.49	17.79

STC: 1000W/m² 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	6200
Max. tested tensile load [Pa] ²	4200

TEMPERATURE COEFFICIENT

I _{sc}	V _{oc}	P _{max}
0.046% /°C	-0.25% /°C	-0.30% /°C

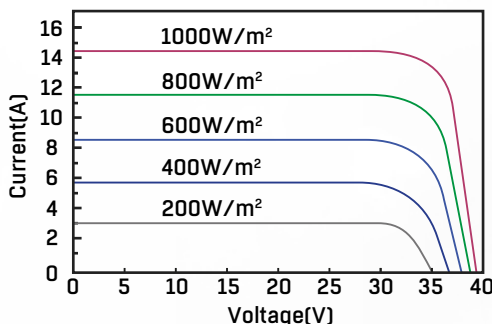
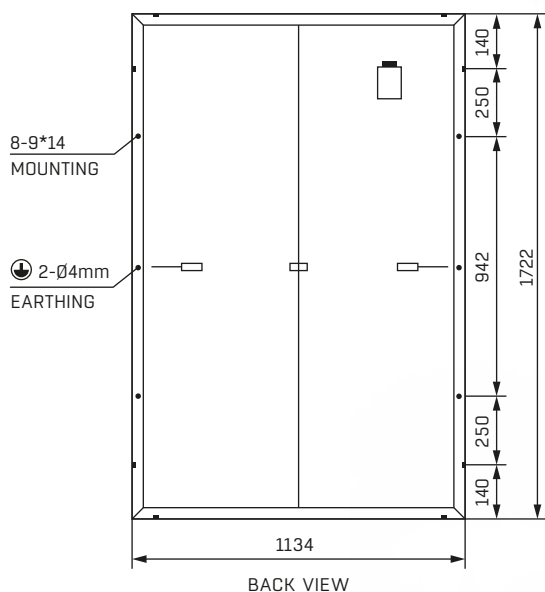
SPECIFICATIONS

Type of cells	N-type of Bifacial Black Mono
Number of cells	108 (12 x 9) 182x91 mm
Dimensions	1722 x 1134 x 30 mm
Weight	21.5 kg
Front-side glass	3.2 mm ^{high transmission, low iron, tempered glass}
Frame	Anodized Aluminium Alloy
Junction box	Split Junction Box (IP68)
Cable	4 mm ² , +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	26	Pieces per Container	936

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. ¹The 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