

TRANSPARENT BACKSHEET

IMPROVED LOAD

pressure **6200**

tensile **4200**

TESTED

TOPCON CELLS INSIDE

16BB
HALF-CELL MONO PV MODULE

IBEX 144BF-MHC-TOPCON

560/565/570/575/580

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 144BF-MHC-TOPCON 560-580

MONOCRYSTALLINE SOLAR MODULE

ELECTRICAL DATA AT STC

Module Type	560W	565W	570W	575W	580W
	STC	STC	STC	STC	STC
Rated power P _{mpp} [Wp]	560	565	570	575	580
P _{mpp} range to	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
Rated current I _{mpp} [A]	13.41A	13.48A	13.55A	13.62A	13.69A
Rated voltage V _{mpp} [V]	41.77V	41.92V	42.07V	42.22V	42.37V
Short-circuit current I _{sc} [A]	14.15A	14.23A	14.31A	14.39A	14.46A
Open-circuit voltage U _{oc} [V]	50.47V	50.60V	50.74V	50.88V	51.06V
Efficiency at STC up to	21.68%	21.87%	22.07%	22.26%	22.45%
Application Class	Class A	Class A	Class A	Class A	Class A

*STC: irradiance 1000W/m², AM1.5, and cell temperature of 25°C

PARAMETER OF DOUBLE-SIDED POWER GENERATION (570W)

	P _{max} /W	V _{mpp} /V	I _{mpp} /A	V _{oc} /V	I _{sc} /A
5%	598	42.07	14.22	50.74	15.03
15%	655	42.07	15.58	50.74	16.46
25%	712	42.07	16.94	50.74	17.89

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

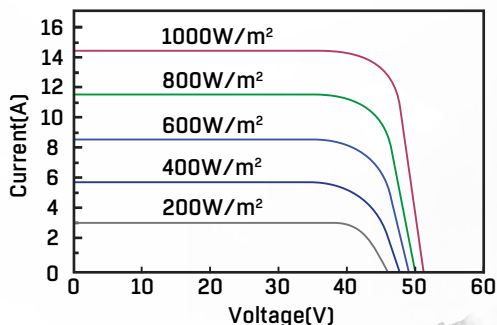
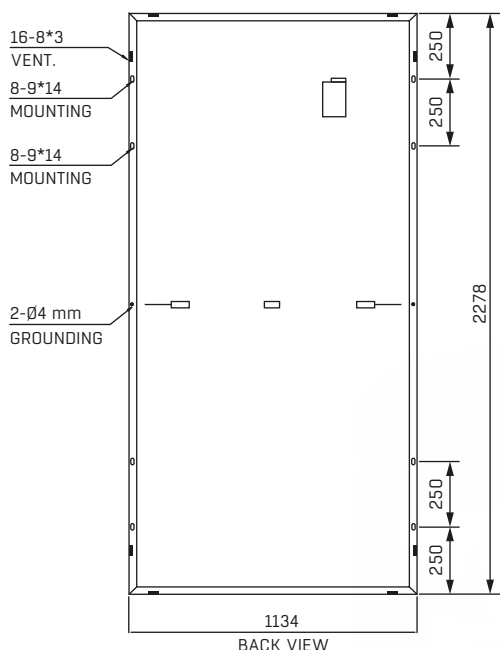
SPECIFICATIONS

Type of cells	N-type of Bifacial Black Mono
Number of cells	144 (12x12) 182x91mm
Dimensions	2278 x 1134 x 35 mm
Weight	28.4 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	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 | 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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