

IMPROVED LOAD

pressure
6200

tensile
4200

TESTED

**TOPCON
 CELLS INSIDE
 GLASS/GLASS**

16BB
 HALF-CELL
 MONO PV MODULE

IBEX 144BF-MHC-TOPCON
 570/575/580/585/590

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 570-590

MONOCRYSTALLINE SOLAR MODULE

ELECTRICAL DATA AT STC

Module Type	570W	575W	580W	585W	590W
	STC	STC	STC	STC	STC
Rated power P _{mp} [Wp]	570	575	580	585	590
P _{mp} range to	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
Rated current I _{mp} [A]	13.44A	13.51A	13.58A	13.65A	13.72A
Rated voltage V _{mp} [V]	42.41V	42.56V	42.71V	42.86V	43.00V
Short-circuit current I _{sc} [A]	14.15A	14.22A	14.29A	14.36A	14.43A
Open-circuit voltage U _{oc} [V]	51.41V	51.55V	51.68V	51.81V	51.94V
Efficiency at STC up to	22.07%	22.26%	22.45%	22.65%	22.84%
Application Class	Class A	Class A	Class A	Class A	Class A

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

BIFACIAL OUTPUT-REAR SIDE POWER GAIN 570W

5%	Maximum Power At STC (P _{max})	599W	604 W	609W	614W	620W
	Module Efficiency STC (%)	23.17%	23.37%	23.57%	23.78%	23.98%
15%	Maximum Power At STC (P _{max})	656W	661W	667W	673W	679W
	Module Efficiency STC (%)	25.37%	25.60%	25.82%	26.04%	26.27%
25%	Maximum Power At STC (P _{max})	713W	719W	725W	731W	738W
	Module Efficiency STC (%)	27.58%	27.82%	28.07%	28.31%	28.55%

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}
0.045% /°C	-0.25 % /°C	-0.29% /°C

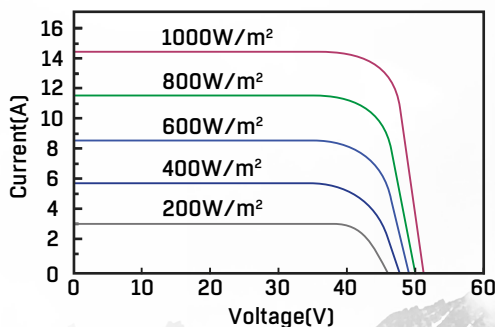
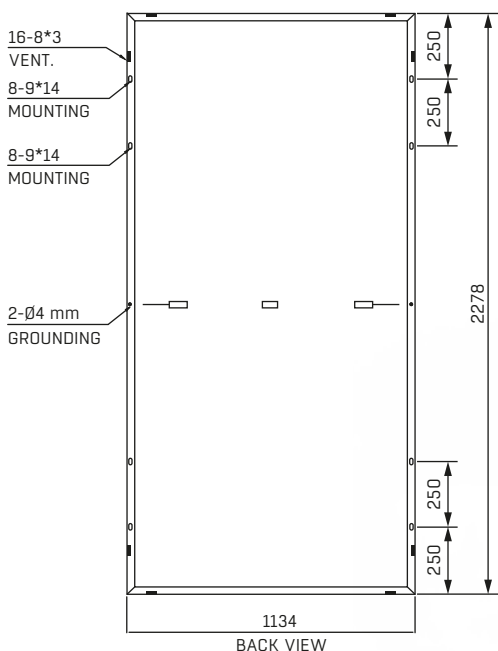
SPECIFICATIONS

Type of cells	N-type of Bifacial Black Mono
Number of cells	144 (6x24) 182x91mm
Dimensions	2278 x 1134 x 35 mm
Weight	31.5 kg
Front-side glass	2.0/2.0 mm <small>tempered highly transp. anti-reflection solar glass</small>
Frame	Anodized Aluminium Alloy
Junction box	Split Junction Box (IP68)
Cable	4 mm ² , +300mm,-300mm 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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