

TRANSPARENT BACKSHEET

**IMPROVED LOAD**

pressure **6200**  
tensile **4200**

**TESTED**

TOPCON CELLS INSIDE

# IBEX 132BF-MHC-TOPCON

510/515/520/525/530

**16BB**  
HALF-CELL MONO PV MODULE

**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 132BF-MHC-TOPCON 510-530

MONOCRYSTALLINE SOLAR MODULE

## ELECTRICAL DATA AT STC

Module Type	510W	515W	520W	525W	530W
	STC	STC	STC	STC	STC
Rated power P <sub>mpp</sub> [Wp]	510	515	520	525	530
P <sub>mpp</sub> range to	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
Rated current I <sub>mpp</sub> [A]	13.26A	13.33A	13.41A	13.48A	13.55A
Rated voltage V <sub>mpp</sub> [V]	38.48V	38.64V	38.80V	38.96V	39.12V
Short-circuit current I <sub>sc</sub> [A]	13.99A	14.06A	14.15A	14.22A	14.29A
Open-circuit voltage U <sub>oc</sub> [V]	46.46V	46.65V	46.84V	47.04V	47.24V
Efficiency at STC up to	21.48%	21.69%	21.90%	22.11%	22.32%
Application Class	Class A	Class A	Class A	Class A	Class A

STC: 1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AML5.

## PARAMETER OF DOUBLE-SIDED POWER GENERATION (525W)

Pmax gain	Pmax/W	V <sub>mpp</sub> /V	I <sub>mpp</sub> /A	V <sub>oc</sub> /V	I <sub>sc</sub> /A
5%	551	38.96	14.15	47.04	14.93
15%	603	38.96	15.50	47.04	16.35
25%	656	38.96	16.85	47.04	17.78

## 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] <sup>2</sup>	6200
Max. tested tensile load [Pa] <sup>2</sup>	4200

## TEMPERATURE COEFFICIENT

I <sub>sc</sub>	V <sub>oc</sub>	P <sub>max</sub>
0.046% /°C	-0.25 % /°C	-0.30% /°C

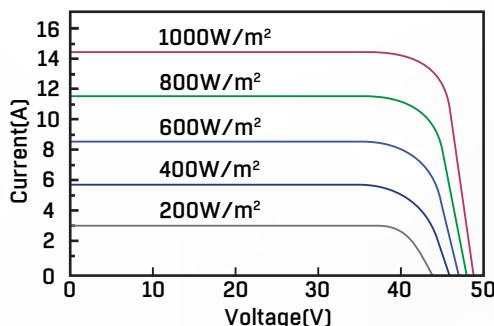
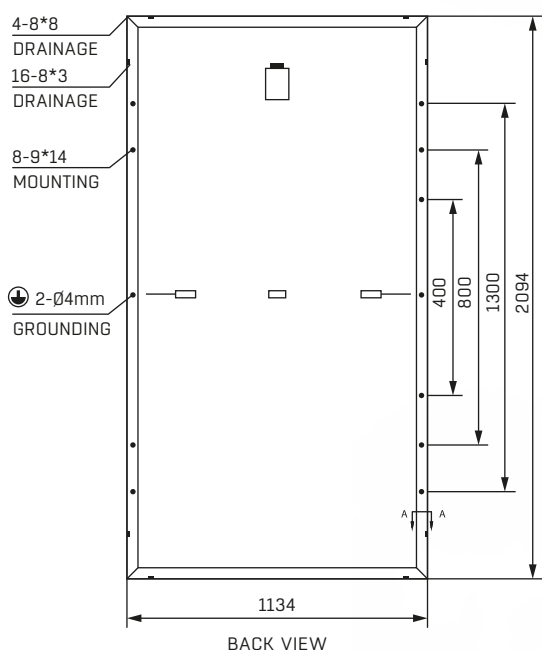
## SPECIFICATIONS

Type of cells	N-type Mono
Number of cells	132 (12x11)   182x91mm
Dimensions	2094 x 1134 x 30 mm
Weight	26.10 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 <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	22	Pieces per Container	682

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. <sup>1</sup>The specific warranty conditions are given under [www.swissenergy-solar.ch](http://www.swissenergy-solar.ch) | <sup>2</sup> Horizontal mounted | <sup>3</sup> Tolerance L/W = +/- 3 mm. H +/- 2mm, the dimensions given in the order confirmation will be decisive | <sup>4</sup> Location and dimensions of holes on request



## WARRANTY

**25 YEARS**  
PRODUCT WARRANTY

**30 YEARS**  
POWER WARRANTY