

IMPROVED LOAD

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

 **TESTED**

**TOPCON
 CELLS INSIDE**

12BB

HALF-CELL
 MONO PV MODULE

IBEX 132MHC-TOPCON

520/525/530

IBEX HIGH EFFICIENCY MONOCRYSTALLINE SOLAR MODULES WITH TOPCON CELLS TECHNOLOGY



SMBB TECHNOLOGY



LESS HOT SPOT SHADING EFFECTS



N-TOPCON CELL TECHNOLOGY



LOWER COST OF KILOWATT-HOUR
 ELECTRICITY (LCOE)



EXCELLENT ANTI-PID
 LOW LID PERFORMANCE



HIGH TECHNOLOGY
 SOLAR MODULES

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



IBEX 132MHC-TOPCON 520-530

MONOCRYSTALLINE SOLAR MODULE

ELECTRICAL DATA AT STC

Module Type	520W	525W	530W
	STC	STC	STC
Rated power P _{mpp} [Wp]	520	525	530
P _{mpp} range to	0/+5W	0/+5W	0/+5W
Rated current I _{mpp} [A]	13.21A	13.28A	13.35A
Rated voltage V _{mpp} [V]	39.36V	39.53V	39.70V
Short-circuit current I _{sc} [A]	14.14A	14.21A	14.28A
Open-circuit voltage U _{oc} [V]	47.03V	47.22V	47.41V
Efficiency at STC up to	21.90%	22.11%	22.32%
Application Class	Class A	Class A	Class A

*STC: irradiance 1000W/m² | AM1.5 | Cell temperature of 25°C

ELECTRICAL DATA AT NOCT

Power at P _{mpp} [Wp]	391	395	399
Rated current I _{mpp} [A]	10.78	10.84	10.90
Rated voltage V _{mpp} [V]	36.27	36.44	36.61
Short-circuit I _{sc} [A]	11.40	11.46	11.52
Open-circuit voltage U _{oc} [V]	44.74	44.90	45.05

*NOCT: irradiance 800 W/m² | Wind speed 1 m/sec | Ambient temperature | 20°C cell operating | AM 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	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

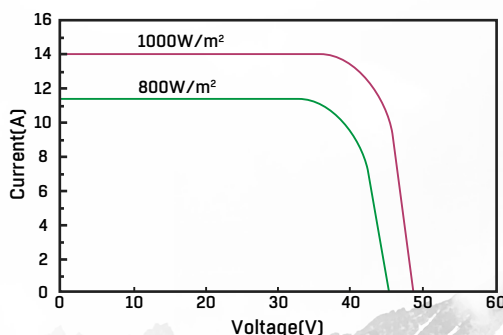
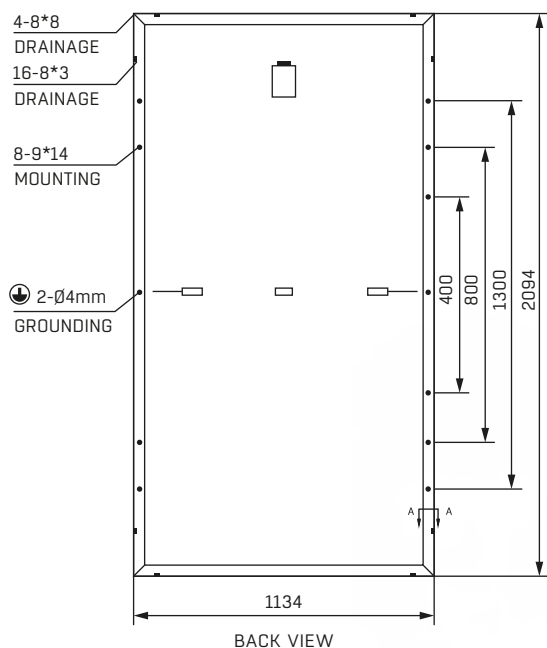
SPECIFICATIONS

Type of cells	N-type Mono
Number of cells	132 (6x22) 182x91mm
Dimensions	2094 x 1134 x 35 mm
Weight	25.5 kg
Frontglass	3.2 mm coated tempered glass
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	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. 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

SWISSENERGY-SOLAR.CH