

IMPROVED LOAD

pressure
6200
tensile
4200

TESTED

TOPCON
CELLS INSIDE

12BB

HALF-CELL
MONO PV MODULE

IBEX 156MHC-TOPCON

610/615/620/625

BLACK

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 156MHC-TOPCON BLACK 610-625

MONOCRYSTALLINE SOLAR MODULE

ELECTRICAL DATA AT STC

Module Type	610W	615W	620W	625W
	STC	STC	STC	STC
Rated power P _{mpp} [Wp]	610	615	620	625
P _{mpp} range to	0/+5W	0/+5W	0/+5W	0/+5W
Rated current I _{mpp} [A]	13.34A	13.41A	13.48A	13.55A
Rated voltage V _{mpp} [V]	45.73V	45.86V	45.99V	46.13V
Short-circuit current I _{sc} [A]	14.10A	14.17A	14.24A	14.31A
Open-circuit voltage U _{oc} [V]	55.25V	55.40V	55.55V	55.70V
Efficiency at STC up to	21.82%	22.00%	22.18%	22.36%
Application Class	Class A	Class A	Class A	Class A

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

ELECTRICAL DATA AT NOCT

Power at P _{mpp} [Wp]	459	463	467	471
Rated current I _{mpp} [A]	10.84	10.90	10.96	11.02
Rated voltage V _{mpp} [V]	42.34	42.48	42.61	42.74
Short-circuit I _{sc} [A]	11.41	11.47	11.53	11.59
Open-circuit voltage U _{oc} [V]	52.50	52.66	52.82	52.98

*NOCT: irradiance 800 W/m² | Wind speed 1 m/sec | Ambient temperature | 20°C cell operating temperature 45 +/-2°C | 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

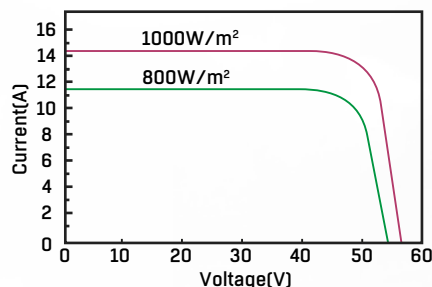
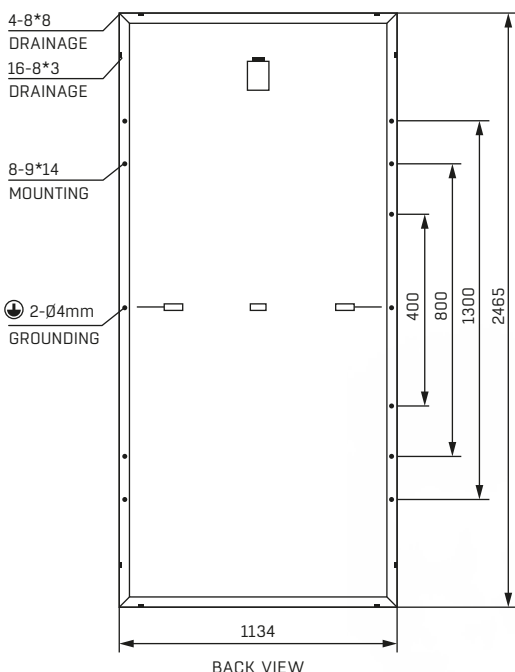
SPECIFICATIONS

Type of cells	N-type Mono
Number of cells	156 (6 x 26) 182x91mm
Dimensions	2465 x 1134 x 35mm
Weight	30.0 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	16	Pieces per Container	496

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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