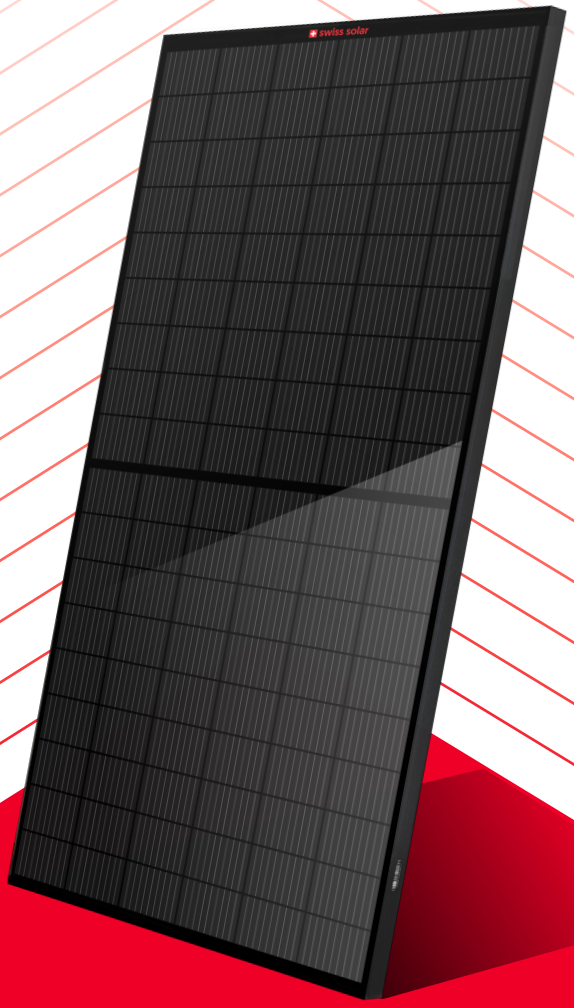
swiss solar QUALITY TECHNOLOGY

ENGINEERED IN SWITZERLAND



IBEX54M-EiGER FULL BLACK

530/535/540/545/550

IBEX HIGH EFFICIENCY MONOCRYSTALLINE SOLAR MODULES WITH HALF CELL TECHNOLOGY

0+5 Positive power tolerance (0+5W) guaranteed

High performance under low light. Works at cloudy, rainy days

The monolithic perc cell structure technology (low resistance characteristics) is adopted (the maximum conversion efficiency of modules is up to 21.48%)

EXTREME WEATHER RATING. High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (3800 Pa)

Reduced resistance between cells Less micro cracks, higher output power

10% SUPER STRONG FRAME. The overflow tank is waterproof with double layers. Aluminum frame enhances the mechanical load strength by 10%

SWISSENERGY-SOLAR.CH

IBEX54M-EiGER 530-550 FULL BLACK

MONOCRYSTALLINE SOLAR MODULE

ELECTRICAL DATA AT STC					
Rated power Pmpp [Wp]	530	535	540	545	550
Pmpp range to	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
Rated current Impp [A]	17.27A	17.31A	17.36A	17.42A	17.46A
Rated voltage Vmpp [V]	30.70V	30.90V	31.10V	31.30V	31.50V
Short-circuit current Isc [A]	18.28A	18.33A	18.38A	18.45A	18.49A
Open-circuit voltage Uoc [V]	37.00V	37.20V	37.50V	37.70V	37.90V
Efficiency at STC up to	20.70%	20.90%	21.09%	21.29%	21.48%
Application Class	Class A	Class A	Class A	Class A	Class A

Specification as per STC (Standard test conditions): irradiance 1000 W/m² | module temperature 25°C | Air Mass = 1.5

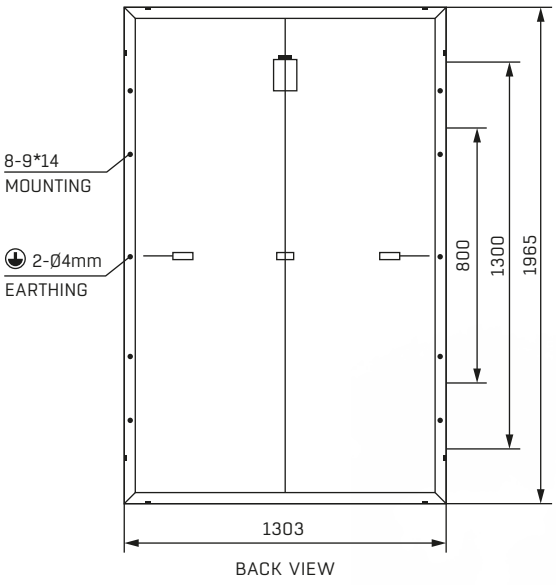
ELECTRICAL DATA AT NOCT					
Power at Pmpp [Wp]	401.7	405.5	409.3	413.1	416.9
Rated current Impp [A]	14.00	14.04	14.08	14.13	14.16
Rated voltage Vmpp [V]	28.70	28.90	29.10	29.20	29.40
Short-circuit Isc [A]	14.77	14.81	14.85	14.91	14.94
Open-circuit voltage Uoc [V]	34.70	34.80	35.10	35.30	35.50

NOCT (nominal operating cell temperature): irradiance 800 W/m² | Wind speed 1 m/sec | Ambient temperature | 20°C cell operating temperature 45 +/-2°C | Air Mass = 1.5

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	5400
Max. tested tensile load [Pa]2	3800

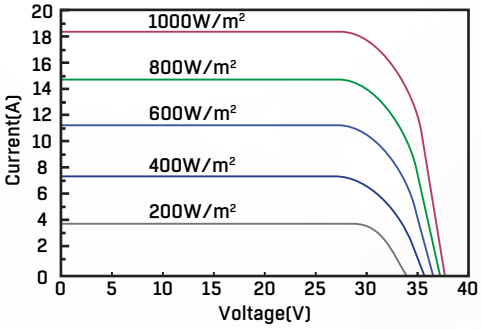
TEMPERATURE COEFFICIENT		
Isc	Voc	Pmax
0.05% /°C	-0.27% /°C	-0.35% /°C

SPECIFICATIONS	
Number of cells	108 (6 x 18) I 210x105 mm
Dimensions	1965x1303x35 mm
Weight	28.5 kg
Front-side glass	3.2 mm tempered Low Iron Glass
Frame	Stable, anodised aluminium frame, black
Junction box	Split Junction Box (IP68)
Cable	4 mm², +300mm,-300mm Cust.Length
Diodes	3 Diodes
Plug-in connection	MC4 Compatible
Hail test (max. hailstrom)	Ø45mm | 23 m/s | 83 km/h



PACKING CONFIRGURATION			
Container	40 HQ	Pieces Per Pallet	30
Pallets Per container	16	Pieces per Container	480

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

20 YEARS
PRODUCT WARRANTY

30 YEARS
POWER WARRANTY

swiss solar