



IBEX HIGH EFFICIENCY MONOCRYSTALLINE SOLAR MODULES WITH HALF CELL TECHNOLOGY



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 21.3%)



EXTREME WEATHER RATING. High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (2400 Pa)



Reduced resistance between cells Less micro cracks, higher output power



Combines high efficiency PERC bifacial cells with a dual glass construction, which can convert light that hits the back of the module into electricity, generating up to 25% more energy

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











IBEX MHC144-EIGER BIFACIAL 530-550

MONOCRYSTALLINE SOLAR MODULE

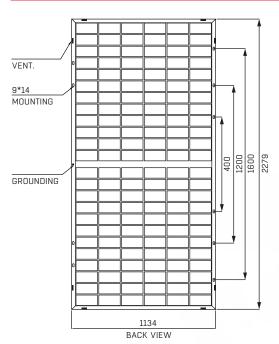
ELECTRICAL DATA AT STC					
Module Type	530W	535W	540W	545W	550W
	STC NOCT	STC NOCT	STC NOCT	STC NOCT	STC NOCT
Rated power Pmpp [Wp]	530 396	535 400	540 404	545 408	550 412
Pmpp range to	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
Rated current Impp [A]	12.83A 10.56A	12.90A 10.63A	12.97A 10.69A	13.05A 10.75A	13.12A 10.81A
Rated voltage Vmpp [V]	41.35V 37.49V	41.50V 37.64V	41.65V 37.79V	41.80V 37.94V	41.95V 38.09V
Short-circuit current Isc [A]	13.76A 11.22A	13.83A 11.29A	13.90A 11.36A	13.95A 11.43A	14.00A 11.50A
Open-circuit voltage Uoc [V]	49.20V 45.25V	49.35V 45.40V	49.50V 45.55V	49.65V 45.70V	49.80V 45.85V
Efficiency at STC up to	20.50%	20.70%	20.90%	21.10%	21.30%
Application Class	Class A	Class A	Class A	Class A	Class A

ELECTRICAL CHARACTERISTICS WITH DIFFERENT POWER RANGES (REFERENCE TO 25% SOLAR ILLUMINACE RATIO)					
TYPE	530 (+5%)	535 (+10%)	540 (+15%)	545 (+20%)	550 (+25%)
Rated power Pmpp [Wp]	562	589	615	642	669
Rated current Impp [A]	13.54	14.19	14.82	15.47	16.12
Rated voltage Vmpp [V]	41.50	41.50	41.50	41.50	41.50
Short-circuit current Isc [A]	14.52	15.21	15.90	16.59	17.29
Open-circuit voltage Uoc [V]	49.35	49.35	49.35	49.35	49.35

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

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	5400
Max. tested tensile load [Pa]2	2400

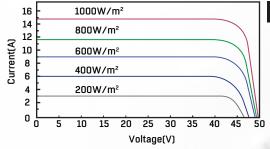
TEMPERATURE COEFFICIENT				
Isc	Voc	Pmax		
0.049% /°C	-0.29 % /°C	-0.39% /°C		



SPECIFICATIONS	
Number of cells	144 (6 x 24) I 182x91mm
Dimensions	2279 x 1134 x 35 mm
Weight	27.2 kg
Front-side glass	2.0/2.0 mm tempered highly transp. anti-reflection solar glass
Frame	Stable, anodised aluminium frame, black
Junction box	Split Junction Box (IP68)
Cable	4 mm², +400mm,-200mm 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	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 correspondes 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

