



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 21.28%)



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)
- IS09001:2015: Quality Management System
- ISO45001:2018 Occupational health and safety management systems











IBEX 144BF-MHC-EIGER 545-550

MONOCRYSTALLINE SOLAR MODULE

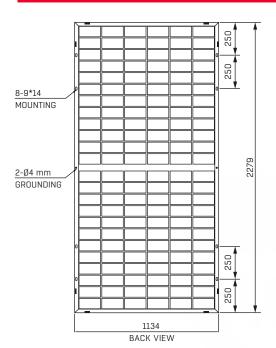
ELECTRICAL DATA AT STC			
Module Type	545W	550W	
	STC	STC	
Rated power Pmpp [Wp]	545	550	
Pmpp range to	0/+5W	0/+5W	
Rated current Impp [A]	12.94A	13.01A	
Rated voltage Vmpp [V]	42.12V	42.28V	
Short-circuit current Isc [A]	13.83A	13.90A	
Open-circuit voltage Uoc [V]	50.18V	50.32V	
Efficiency at STC up to	21.09%	21.28%	
Application Class	Class A	Class A	

ELE	CTRICAL CHARACTERISTICS W	ITH DIFFEREN	T REAR SIDE	POWER GAIN		
5%	Maximum Power At STC (Pmax)	575W	562W	567W	572W	578W
	Module Efficiency STC (%)	21.53%	21.74%	21.94%	22.14%	22.35%
15%	Maximum Power At STC (Pmax)	610W	615W	621W	627W	633W
	Module Efficiency STC (%)	23.58%	23.81%	24.03%	24.25%	24.47%
25%	Maximum Power At STC (Pmax)	663W	669W	675W	681W	688W
	Module Efficiency STC (%)	25.63%	25.88%	26.12%	26.36%	26.60%

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

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	2400

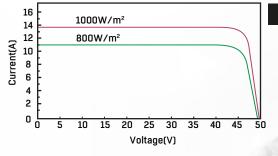
TEMPERATURE COEFFICIENT				
Isc	Voc	Pmax		
0.05% /°C	-0.28% /°C	-0.36% /°C		



SPECIFICATIONS	
Number of cells	144 (6x24) I 182x91mm
Dimensions	2279 x 1134 x 35 mm
Weight	27.5 kg
Frontglass	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, +300mm,-400mm Cust.Length
Diodes	3 Diodes
Plug-in connection	MC4 Compatible
Hail test (max. hailstrom)	Ø45mm 23 m/s 83 km/h

Container 40 HO Pieces Per Pallet 31	
Container 15 Tig Treees Fer Fallet 51	
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

