## SWISS SOlar GUALITY TECHNOLOGY



HIGH TECHNOLOGY SOLAR MODULES

## IBEX 144MHC EIGER BIFACIAL 530/535/540/545/550

BB HALF-CELL MONO PV MODULE

BIFACIAL HIGH TECHNOLOGY GLASS SOLAR MODULES

## IBEX HIGH EFFICIENCY MONOCRYSTALLINE SOLAR MODULES WITH HALF CELL TECHNOLOGY



Positive power tolerance (0+5W) guaranteed



The monolithic perc cell structure technology (low resistance characteristics) is adopted ( the maximum conversion efficiency of modules is up to 21.3%)



Reduced resistance between cells Less micro cracks, higher output power

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



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



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



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

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## IBEX MHC144-EIGER BIFACIAL 530-550

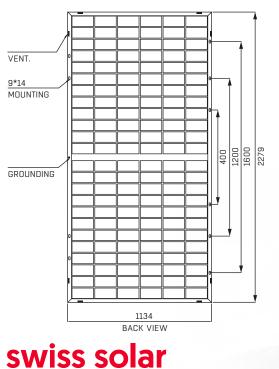
MONOCRYSTALLINE SOLAR MODULE

ELECTRICAL DATA AT	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]	<b>530</b> 396	<b>535</b> 400	<b>540</b> 404	<b>545</b> 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)						
ТҮРЕ	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 tempe	STC: 1000W/m2 irradiance 25% call temperature AM15					

	LIMITING VALUES		SPECIFICATIONS	
	Max. system voltage [V]	1500V DC (IEC)	Number of cells	144 (6 x 24) l 182x91mm
	Max. return current [I]	25A	Dimensions	2279 x 1134 x 35 mm
	Operating Temperature	- 40 to +85°C	Weight	27.2 kg
	Max.tested pressure load [Pa]2	5400	Front-side glass	2.0/2.0 mm tempered highly transp. anti-reflection solar glass
	Max. tested tensile load [Pa]2	2400	Frame	Stable, anodised aluminium frame, black
		Junction box	Split Junction Box (IP68)	

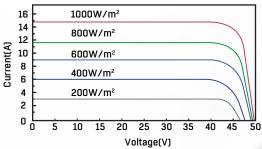
	lsc	Voc	Pmax		
	0.049% /°C	-0.29 % /°C	-0.39% /°C		



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Cable	4 m	ım², +400mm,-200mm Cւ	ist.Length	
Diodes	3 D	iodes		
Plug-in connection	MC	4 Compatible		
Hail test (max. hailstrom)	Ø45	imm   23 m/s   83 km/h		
PACKING CONFIRGURATION				
Container 40	I HQ	Pieces Per Pallet	31	

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 varranty conditions are given under www.swissenergy-solarch | 2 Horizontal mounted | 3 Tolerance L/W = -/- 3 m. 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