SWISS SOlar GUALITY TECHNOLOGY



HIGH TECHNOLOGY SOLAR MODULES

IBEX 144BF MHC-EIGER 530/535/540/545/550

BB HALF-CELL MONO PV MODULE

BIFACIAL HIGH TECHNOLOGY TRANSPARENT BACKSHEET 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 21.28%)



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

TJV NORD



IBEX 144BF-MHC-EIGER 530-550

MONOCRYSTALLINE SOLAR MODULE

ELECTRICAL DATA AT STC	ELECTRICAL DATA AT STC					
Module Type	530W	535W	540W	545W	550W	
	STC	STC	STC	STC	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]	12.73A	12.80A	12.87A	12.94A	13.01A	
Rated voltage Vmpp [V]	41.63V	41.80V	41.96V	42.12V	42.28V	
Short-circuit current Isc [A]	13.62A	13.69A	13.76A	13.83A	13.90A	
Open-circuit voltage Uoc [V]	49.74V	49.89V	50.04V	50.18V	50.32V	
Efficiency at STC up to	20.51%	20.70%	20.89%	21.09%	21.28%	
Application Class	Class A	Class A	Class A	Class A	Class A	

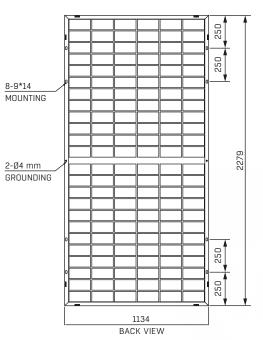
ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN

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			SPECIFICATIONS	
	Max. system voltage [V]	1500V DC (IEC)	Number of cells	144 (6x24) l 182x91mm
	Max. return current [I]	25A	Dimensions	2279 x 1134 x 35 mm
	Operating Temperature	- 40 to +85°C	Weight	27.5 kg
	Max.tested pressure load [Pa]2	5400	Frontglass	3.2mm coated tempered glass
	Max. tested tensile load [Pa]2	2400	Frame	Stable, anodised aluminium frame, black
		. 	Junction box	Split Junction Box (IP68)

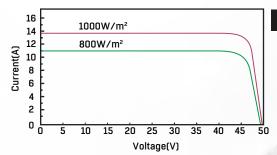
TEMPERATURE COEFFICIENT				
lsc	Voc	Pmax		
0.05% /°C	-0.28% /°C	-0.36% /°C		



Number of cells	144 (6x24) 182x91mm
Dimensions	2279 x 1134 x 35 mm
Weight	27.5 kg
Frontglass	3.2mm coated tempered 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

PACKING CONFIRG	URATION		
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-solarch | 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



25 YEARS PRODUCT WARRANTY

WARRANTY

30 YEARS POWER WARRANTY

swiss solar

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