# SWISS SOlar GUALITY TECHNOLOGY



HIGH TECHNOLOGY SOLAR MODULES

### **IBEX 144BF MHC-EIGER** 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

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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 144BF-MHC-EIGER 545-550

MONOCRYSTALLINE SOLAR MODULE

ELECTRICAL DATA AT STC	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]	13.01A	13.06A		
Rated voltage Vmpp [V]	41.93V	42.10V		
Short-circuit current Isc [A]	13.92A	14.01A		
Open-circuit voltage Uoc [V]	49.90V	50.10V		
Efficiency at STC up to	21.08%	21.28%		
Application Class	Class A	Class A		

### ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN

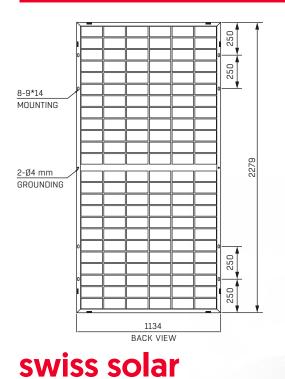
5%	Maximum Power At STC (Pmax)	575W	562W	567W	572W	578W
	Module Efficiency STC (%)	21.53%	21.74%	21.94%	22.14%	22.35%
15%	Maximum Power At STC (Pmax)	610W	615W	621W	627W	633W
	Module Efficiency STC (%)	23.58%	23.81%	24.03%	24.25%	24.47%
25%	Maximum Power At STC (Pmax)	663W	669W	675W	681W	688W
	Module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

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

LIMITING VALU	IMITING VALUES		SPECIFICATIONS		
Max. system volta	ge [V] 1	.500V DC (IEC)	Number of cells	144 (6x24) l 182x91mm	
Max. return currer	nt [l] 3	30A	Dimensions	2279 x 1134 x 35 mm	
Operating Temper	ature -	40 to +85°C	Weight	28.4 kg	
Max.tested pressu	ire load [Pa]2 5	5400	Frontglass	<b>3.2 mm</b> high transmission, low iron, tempered glass	
Max. tested tensil	e load [Pa]2 2	2400	Frame	Stable, anodised aluminium frame, black	
		Junction box	Split Junction Box (IP68)		

### TEMPERATURE COEFFICIENT

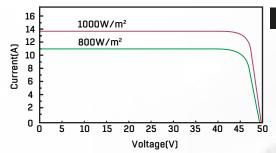
ISC	VOC	Pmax	
0.045% /°C	-0.285% /°C	-0.35% /°C	



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Frontglass	3.2 m	nm high transmission, low iron, tempered glass			
Frame	Stable	e, anodised aluminium fra	ame, black		
Junction box	Split	Junction Box (IP68)			
Cable	4 mm	1², +350mm,-350mm Cu	st.Length		
Diodes	3 Dio	des			
Plug-in connection	MC4	Compatible			
Hail test (max. hailstrom)	Ø45m	nm   23 m/s   83 km/h			
PACKING CONFIRGURATION					
Containar 40	110	Diagon Dor Dollat	01		

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 varianty 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



25 YEARS PRODUCT WARRANTY

WARRANTY

**30 YEARS** POWER WARRANTY

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