# SWISS SOlar GUALITY TECHNOLOGY



HIGH TECHNOLOGY SOLAR MODULES

### **IBEX 120BF MHC-EIGER** 450/455

OBB HALF-CELL MONO PV MODULE

BIFACIAL HIGH TECHNOLOGY TRANSPARENT BACKSHEET

#### 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 21.01%)



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



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# IBEX 120BF MHC-EIGER 450-455

MONOCRYSTALLINE SOLAR MODULE

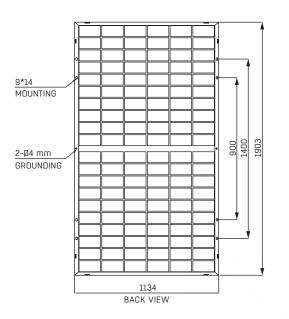
ELECTRICAL DATA AT STC					
Module Type	450W		455W		
	STC	NOCT	STC	NOCT	
Rated power Pmpp [Wp]	450	334.5W	455	338.2W	
Pmpp range to	0/+5W		0/+	-5W	
Rated current Impp [A]	12.94A	10.36A	13.02A	10.43A	
Rated voltage Vmpp [V]	34.79V	32.29V	34.95V	32.45V	
Short-circuit current Isc [A]	13.74A	11.07A	13.83A	11.15A	
Open-circuit voltage Uoc [V]	41.40V	38.77V	41.60V	38.95V	
Efficiency at STC up to	20.78%		21.0	01%	
Application Class	Class A		Clas	ss A	

PARAMETER OF DOUBLE-SI	DED POWER G	ENERATION	(450W)	
Pmax gain	+5%	+15%	+25%	
Rated power Pmpp [Wp]	472	517	562	
Rated current Impp [A]	13.57	14.86	16.15	
Rated voltage Vmpp [V]	34.79	34.79	34.79	
Short-circuit current Isc [A]	14.52	15.90	17.28	
Open-circuit voltage Uoc [V]	41.40	41.40	41.40	

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

	SPECIFICATIONS	
1500V DC (IEC)	Number of cells	120 (6 x 20) l 182x91mm
30A	Dimensions	1903 x 1134 x 30 mm
- 40 to +85°C	Weight	27.0 kg
5400	Front-side glass	3.2 mm high transmission, low iron,tempered glass
2400	Frame	Stable, anodised aluminium frame, black
TEMPERATURE COEFFICIENT		Split Junction Box (IP68)
	Cable	4 mm², +350mm,-350mm Cust.Length
	30A - 40 to +85°C 5400 2400	1500V DC (IEC)Number of cells30ADimensions- 40 to +85°CWeight5400Front-side glass2400FrameJunction boxCable

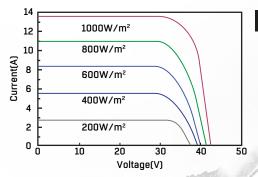
lsc	Voc	Pmax				
0.050% /°C	-0.284 % /°C	-0.35% /°C				



Frame	Stable, anodised aluminium frame, black				
Junction box	Split Junction Box (IP68)				
Cable	4 mm², +350mm,-350mm Cust.Length				
Diodes	3 Diodes				
Plug-in connection	MC4 Compatible				
Hail test (max. hailstrom)	Ø45mm   23 m/s   83 km/h				
PACKING CONFIRGURATION					

PALKING CUNFIRGURATION							
Container	40 HQ	Pieces Per Pallet	36				
Pallets Per container	24	Pieces per Container	864				

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. I The specific varranty 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

## swiss solar