## SWISS SOlar GUALITY TECHNOLOGY



HIGH TECHNOLOGY SOLAR MODULES

## IBEX 144MHC AEON BIFACIAL 525/530/535/540/545

**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 21.03%)

Reduced resistance between cells Less micro cracks, higher output power



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 (3800 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-AEON BIFACIAL 525-545

MONOCRYSTALLINE SOLAR MODULE

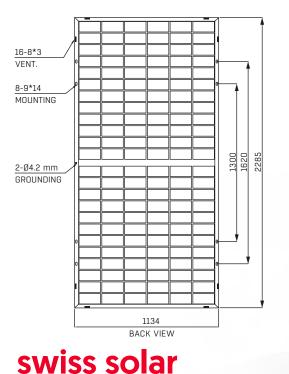
ELECTRICAL DATA AT STC	CTRICAL DATA AT STC					
Module Type	525W	530W	535W	540W	545W	
	STC	STC	STC	STC	STC	
Rated power Pmpp [Wp]	525	530	535	540	545	
Pmpp range to	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W	
Rated current Impp [A]	12.66A	12.73A	12.8A	12.87A	12.94A	
Rated voltage Vmpp [V]	41.47V	41.63V	41.8V	41.96V	42.12V	
Short-circuit current Isc [A]	13.55A	13.62A	13.69A	13.76A	13.83A	
Open-circuit voltage Uoc [V]	49.59V	49.74V	49.89V	50.04V	50.18V	
Efficiency at STC up to	20.26%	20.45%	20.65%	20.84%	21.03%	
Application Class	Class A	Class A	Class A	Class A	Class A	

ELE	CTRICAL CHARACTERISTICS WI	TH DIFFERENT	REAR SIDE P	OWER GAIN (	Reference to 440	W Front)
5%	Maximum Power At STC (Pmax)	551W	557W	562W	567W	572W
	Module Efficiency STC (%)	21.27%	21.48%	21.68%	21.88%	22.08%
15%	Maximum Power At STC (Pmax)	604W	610W	615W	621W	627W
	Module Efficiency STC (%)	23.30%	23.52%	23.74%	23.97%	24.19%
25%	Maximum Power At STC (Pmax)	656W	663W	669W	675W	681W
	Module Efficiency STC (%)	25.33%	25.57%	25.81%	26.05%	26.29%

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

LIMITING VALUES		SPECIFICATIONS	
Max. system voltage [V]	1500V DC (IEC)	Number of cells	144 (6 x 24) l 168.75x83mm
Max. return current [I]	20A	Dimensions	2285 x 1134 x 35 mm
Operating Temperature	- 40 to +85°C	Weight	31.5 kg
Max.tested pressure load [Pa]2	5400	Front-side glass	2.0 mm tempered highly transp. anti-reflection solar glass
Max. tested tensile load [Pa]2	3800	Frame	Stable, anodised aluminium frame, black
TEMPERATURE COEFFICIENT		Junction box	Split Junction Box (IP68)

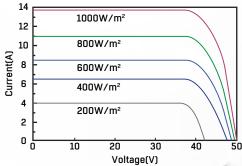
lsc	Voc	Pmax		
0.05% /°C	-ቢ28 % /ግር	-0.36% /°C		



Dimensions	2285 x 1134 x 35 mm		
Weight	31.5 kg		
Front-side glass	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		
PACKING CONFIRGURATION			

Container	40 HQ	Pieces Per Pallet	30	
Pallets Per container	20	Pieces per Container	600	

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

20 YEARS PRODUCT WARRANTY

**30 YEARS** POWER WARRANTY