

IBEX 144MHC-EIGER FULL BLACK

525/530/535/540/545

IBEX HIGH EFFICIENCY MONOCRYSTALLINE SOLAR MODULES WITH HALF CELL TECHNOLOGY

0 + 5

Positive power tolerance (0+5W) guaranteed



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



The monolithic perc cell structure technology (low resistance characteristics) is adopted (the maximum conversion efficiency of modules is up to 21.09%)



EXTREME WEATHER RATING. High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (3800 Pa)



Reduced resistance between cells Less micro cracks, higher output power



SUPER STRONG FRAME. The overflow tank is waterproof with double layers. Aluminum frame enhances the mechanical load strength by 10%

- IEC61215(2016), IEC61730(2016)
- IS09001:2015: Quality Management System
- ISO45001:2018 Occupational health and safety management systems











IBEX 144MHC-EIGER 525-545 FULL BLACK

MONOCRYSTALLINE SOLAR MODULE

ELECTRICAL DATA AT 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	12.80A	12.87A	12.94A
Rated voltage Vmpp [V]	41.47V	41.63V	41.80V	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	20.31%	20.51%	20.70%	20.89%	21.09%
Application Class	Class A				

Specification as per STC (Standard test conditions): irradiance 1000 W/ m^2 | module temperature 25°C | Air Mass = 1.5

ELECTRICAL DATA AT NOC	ELECTRICAL DATA AT NOCT					
Power at Pmpp [Wp]	397.00	401.00	405.00	409.00	413.00	
Rated current Impp [A]	10.25	10.29	10.33	10.37	10.41	
Rated voltage Vmpp [V]	38.73	38.97	39.21	39.44	39.67	
Short-circuit Isc [A]	10.87	10.91	10.95	10.99	11.03	
Open-circuit voltage Uoc [V]	46.92	47.16	47.40	47.63	47.87	

NOCT (nominal operating cell temperature): irradiance 800 W/m² | Wind speed 1 m/sec | Ambient temperature | 20°C cell operating temperature 45 +/-2°C | Air Mass = 1.5

SPECIFICATIONS

LIMITING VALUES	
Max. system voltage [V]	1500V DC (IEC)
Max. return current [I]	20A
Operating Temperature	- 40 to +85°C
Max.tested pressure load [Pa]2	5400
Max. tested tensile load [Pa]2	3800

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

C)	Number of cells	144 (6 x 24) I 182x182 mm			
	Dimensions	2279x1134x35 mm			
С	Weight	28.5 kg			
	Front-side glass	3.2 mm tempered Low Iron 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			
	DACKING CONFIDGUDATION				

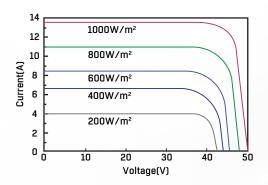
4-8*8 4 DRAINAGE 16-8*3			
VENT. 8-9*14 MOUNTING	•	,	•
2-Ø4mm GROUNDING		<u> </u>	1300 1620 2279
	•		
	•	^[A

1134

BACK VIEW

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



20 YEARS PRODUCT WARRANTY 30 YEARS POWER WARRANTY

swiss solar