

## IBEX

HIGH TECHNOLOGY  
SOLAR MODULES

### IBEX-120MHC-DUO BLACK

330/335/340/345/350/355

9BB HALF-CELL MONO PV MODULE

# SWISS solar

#### 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 20.82%)



EXTREME WEATHER RATING. High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (4000 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%;

# IBEX 120MHC-DUO-BLACK 330-355

## MONOCRYSTALLINE SOLAR MODULE

### ELECTRICAL DATA AT STC

Rated power P <sub>mpp</sub> [Wp]	330	335	340	345	350	355
P <sub>mpp</sub> range to	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
Rated current I <sub>mp</sub> [A]	9.69A	9.77A	9.84A	9.92A	10.00A	10.08A
Rated voltage V <sub>mpp</sub> [V]	34.06V	34.30V	34.55V	34.79V	35.04V	35.29V
Short-circuit current I <sub>sc</sub> [A]	10.32A	10.39A	10.47A	10.54A	10.66A	10.74A
Open-circuit voltage U <sub>oc</sub> [V]	41.07V	41.37V	41.67V	41.96V	42.25V	42.54V
Efficiency at STC up to	19.49%	19.78%	20.08%	20.37%	20.53%	20.82%
Application Class	Class A	Class A	Class A	Class A	Class A	Class A

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

### ELECTRICAL DATA AT NOCT

Power at P <sub>mpp</sub> [Wp]	246	250	254	258	262	264
Rated current I <sub>mp</sub> [A]	7.23	7.29	7.34	7.40	7.46	7.52
Rated voltage V <sub>mpp</sub> [V]	34.02	34.31	34.60	34.88	35.16	35.44
Short-circuit I <sub>sc</sub> [A]	8.26	8.32	8.37	8.43	8.49	8.55
Open-circuit voltage U <sub>oc</sub> [V]	38.38	38.72	39.06	39.4	39.74	40.08

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

### 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	2400

### TEMPERATURE COEFFICIENT

I <sub>sc</sub>	V <sub>oc</sub>	P <sub>max</sub>
0.05% /°C	-0.28% /°C	-0.36% /°C

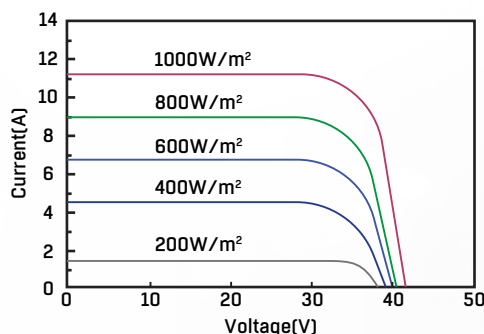
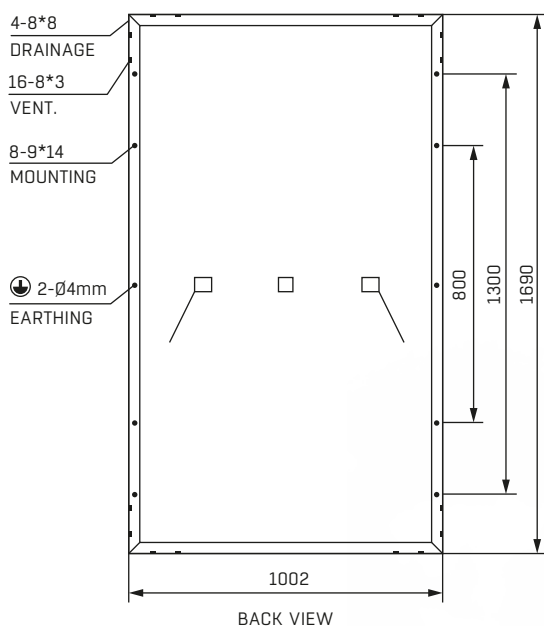
### SPECIFICATIONS

Number of cells	120 (6 x 20)   158,75 x 79,375 mm
Dimensions	1684x 1002 x 35 mm
Weight	21 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 mm <sup>2</sup> , +300mm,-300mm Cust.Length
Diodes	3 Diodes
Plug-in connection	MC4 Compatible
Hail test (max. hailstrom)	Ø45mm   23 m/s   83 km/h

### PACKING CONFIGURATION

Container	40 HQ	Pieces Per Pallet	30
Pallets Per container	26	Pieces per Container	780

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 corresponds 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](http://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

**swiss solar**