

IBS144M PERC

KEY FEATURES



12 years
**Product
Warranty**



25 years
**Performance
Warranty**



Cell efficiency
up to **22.5 %**



Module
efficiency
up to
20.37 %



Heavy snow load
up to **5,400 Pa**



Wind load
up to **2,400 Pa**



PID Free



ELECTRICAL PARAMETERS

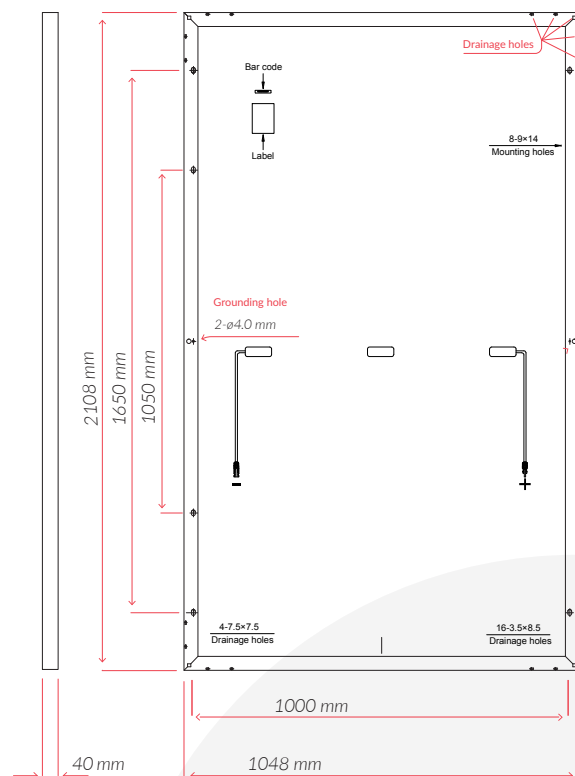
Model	IBS144M				
Maximum Power (Pmax/W)	430	435	440	445	450
Operating Voltage (Vmpp/V)	41.0	41.2	41.4	41.6	41.8
Operating Current (Impp/A)	10.49	10.56	10.63	10.70	10.77
Open-Circuit Voltage (Voc/V)	48.4	49.6	49.8	50.0	50.2
Short-Circuit Current (Isc/A)	11.04	11.10	11.16	11.22	11.28
Module Efficiency $\eta_m(\%)$	19.46	19.69	19.92	20.14	20.37
Power Tolerance	0+3 Wp				
NOCT	47°C±2°C				

Values at Standard Test Conditions STC (AM 1.5, Irradiance 1000 W/m², Cell Temperature 25°C)

SPECIFICATIONS

Cell Type	Mono Crystalline PERC
Cells size	166x83mm
Number of cells	144 (6x24)
Weight	24.0 kg
Front side glass	3,2 mm hardened solar tempered glass
Dimensions	2,108x1,048x40 mm
Cable length	300 mm
Cable cross section size	4 mm ²
Number of bypass diodes	3
Connectors	MC4 compatible
Frame	Anodized Aluminium Alloy
Junction Box	IP68

ENGINEERING DRAWINGS



WORKING CONDITIONS

Maximum System Voltage	DC 1,000 V (IEC) / 1,500 V available
Operating temperature	-40°C / +85° C
Maximum reverse current	20A
IP protection level	IP65
Safety class	II

TEMPERATURE COEFFICIENTS

Power temperature coefficient (Pmax)	-0,36 %/°C
Voltage temperature coefficient (Voc)	-0,28 %/°C
Current temperature coefficient (Isc)	+0,05 %/°C



PACKAGING INFORMATION (I)

Pallet dimension	2,120/1,150/1,130 mm
Pallet weight	670 kg
Modules/pallet	27

PACKAGING INFORMATION (II)

Container	20 GP	40 HQ (I)	40 HQ (II)
Pallets per container	5	22	22
Pieces per container	135	594	628

PARTNERS