

BLACK IBS144M FRAME

KEY FEATURES



12 years
**Product
Warranty**



25 years
**Performance
Warranty**



Cell
efficiency up
to **23 %**



Module
efficiency
up to

21.07 %



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



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



PID Free



ELECTRICAL PARAMETERS

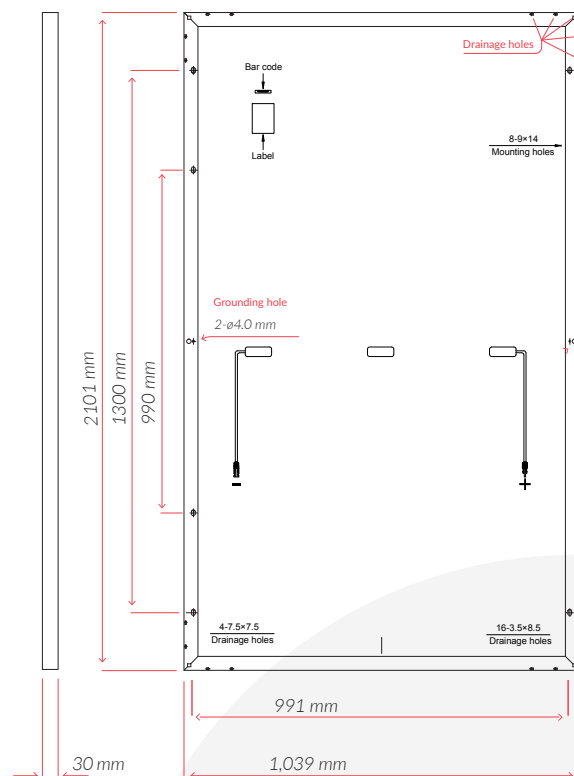
Model	IBS144M BlackFrame
Maximum Power (Pmax/W)	460
Operating Voltage (Vmp/V)	41.79
Operating Current (Imp/A)	11.01
Open-Circuit Voltage (Voc/V)	49.52
Short-Circuit Current (Isc/A)	11.58
Module Efficiency η_m (%)	21.07
Power Tolerance	0+5Wp
NOCT	45°C±2°C

Values at Standard Test Conditions STC (AM 1.5, Irradiance 1,000 W/m², Cell Temperature 25°C)

SPECIFICATIONS

Cell Type	Mono Crystalline PERC
Cells size	166x83mm
Number of cells	144 (6x24)
Weight	25.0 kg
Front side glass	3.2 mm hardened solar tempered glass
Dimensions	2,101x1,039x30 mm
Cable length	1,400mm
Cable cross section size	4 mm ²
Number of bypass diodes	3
Connectors	MC4 conectable
Frame	Anodized Aluminium Alloy
Junction Box	IP68

ENGINEERING DRAWINGS



WORKING CONDITIONS

Maximum System Voltage	DC 1,500 V (IEC)
Operating temperature	-40°C / +85° C
Maximum reverse current	20A
IP protection level	IP68
Safety class	II

TEMPERATURE COEFFICIENTS

Power temperature coefficient (Pmax)	-0.35 %/°C
Voltage temperature coefficient (Voc)	-0.28 %/°C
Current temperature coefficient (Isc)	+0.05 %/°C



PACKAGING INFORMATION (I)

Pallet dimension	2,305/1,125/1,400 mm
Pallet weight	930 kg
Modules/pallet	36

PACKAGING INFORMATION (II)

Container	40 HQ
Pallets per container	22
Pieces per container	792

PARTNERS