

# ALL

# BLACK | PERC TECHNOLOGY |

## KEY FEATURES



10 years  
**Product  
Warranty**



25 years  
**Performance  
Warranty**



Cell efficiency  
up to **22.1%**



Module efficiency  
up to **20.1%**



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

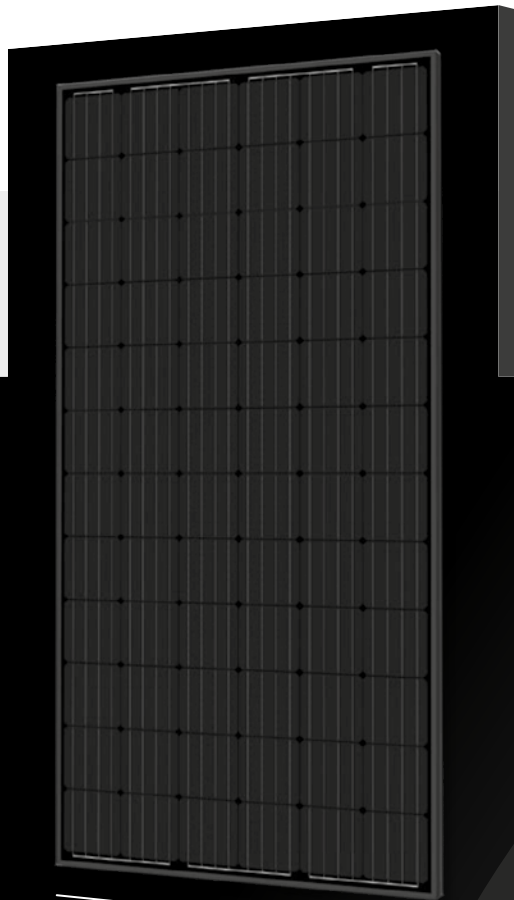


Wind load  
up to **2,400 Pa**



**PID Free**

CE



## ELECTRICAL PARAMETERS

Model	IBS72M ALL BLACK		
Maximum Power (Pmax/W)	<b>380</b>	<b>385</b>	<b>390</b>
Operating Voltage (Vmpp/V)	39.8	40.0	40.2
Operating Current (Imp/A)	9.55	9.63	9.70
Open-Circuit Voltage (Voc/V)	48.4	48.6	48.8
Short-Circuit Current (Isc/A)	9.99	9.06	10.13
Module Efficiency $\eta_m$ (%)	19.58	19.84	20.09
Power Tolerance	0+5 Wp		
NOCT	47±2°C		

Values at Standard Test Conditions STC (AM 1.5, Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C)

## SPECIFICATIONS

Cell Type	Mono Crystalline
Cells size	156,75 x 156,75 mm
Number of cells	72
Weight	21.0 kg
Front side glass	3,2 mm hardened solar tempered glass
Dimensions	1,956x992x35 mm
Cable length	<b>1,000 mm available</b>
Cable cross section size	4 mm <sup>2</sup>
Number of bypass diodes	3
Connectors	MC4 compatible
Frame	Anodized Aluminium Alloy
Junction Box	IP67

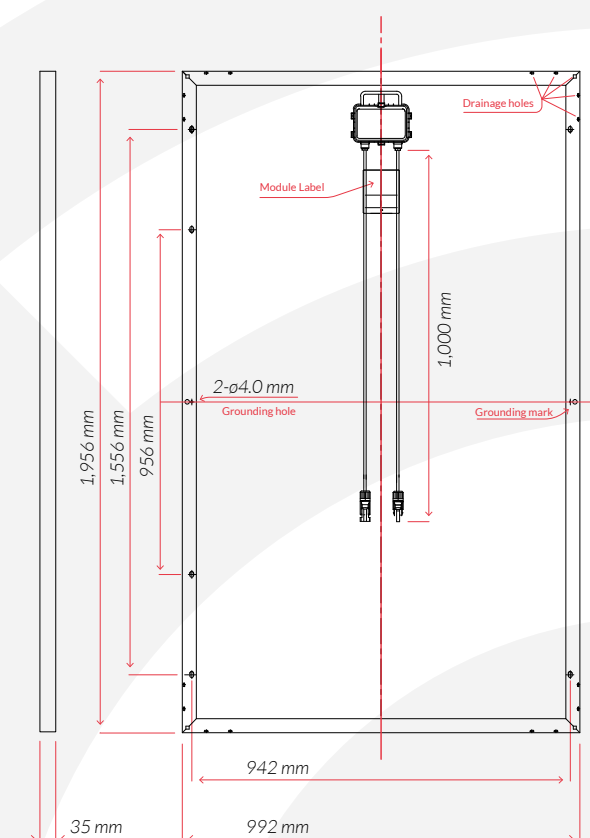
## WORKING CONDITIONS

Maximum System Voltage	DC 1,000 V (IEC) / 1,500 V available
Operating temperature	-40 °C / +85 °C
Maximum reverse current	<b>15A</b>
IP protection level	IP65
Safety class	II

## TEMPERATURE COEFFICIENTS

Power temperature coefficient (Pmax)	-0,38 %/°C
Voltage temperature coefficient (Voc)	-0,29 %/°C
Current temperature coefficient (Isc)	+0,052 %/°C

## ENGINEERING DRAWINGS



## PACKAGING INFORMATION (I)

Pallet dimension	2,010/1,120/1,130 mm		
Pallet weight	640 kg		
Modules/pallet	30		

## PACKAGING INFORMATION (II)

Container	20 GP	40 HQ (I)	40 HQ (II)
Pallets per container	10	24	24
Pieces per container	300	720	780

## PARTNERS