

IBS144M PERC

KEY FEATURES



years
**Product
Warranty**



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

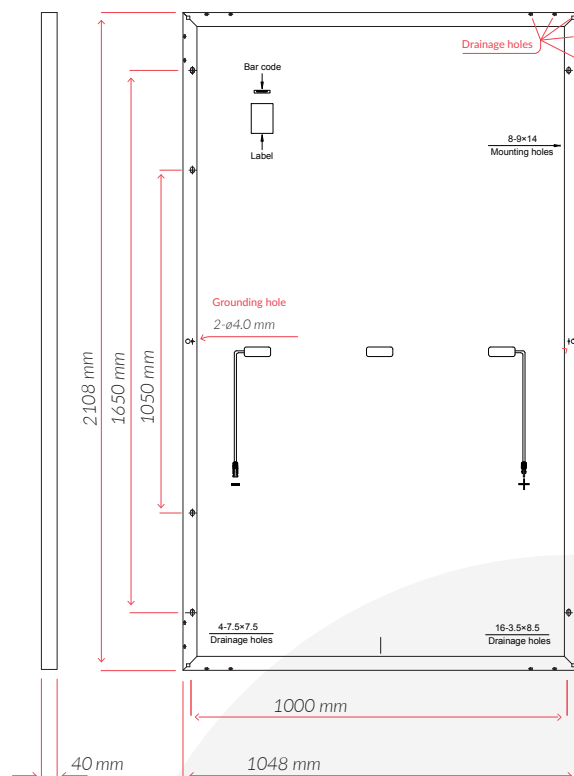
| Model | IBS144M | | | | |
|--------------------------------|------------|------------|------------|------------|------------|
| Maximum Power (Pmax/W) | 430 | 435 | 440 | 445 | 450 |
| Operating Voltage (Vmpp/V) | 41.0 | 41.2 | 41.4 | 41.6 | 41.8 |
| Operating Current (Impp/A) | 10.49 | 10.56 | 10.63 | 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