



# POLYCARB

Connection Zindagi Ka

**SOLAR**

## MONOCRYSTALLINE PERC 72 CELL 5BB PV MODULE



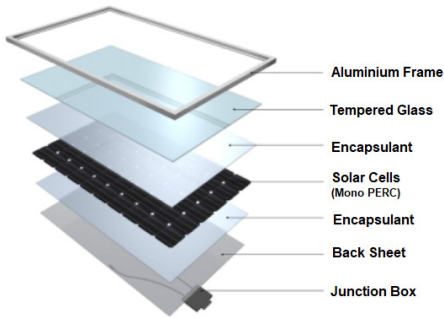
### LEADING FEATURES

- Manufactured using high grade raw materials from reputed international suppliers
- 72 cell, 5BB configurations with wattage ranging from 380Wp to 400Wp
- Torsion and corrosion resistant with Silver (>15 micron) Anodized Aluminum frame
- PID free Modules with extra-long-term reliability
- Higher energy density per square foot than conventional Monocrystalline cells
- Reduces BOS & installation cost
- Superior temperature co-efficient and performance at NOCT
- Better performance even at low Irradiance condition
- >78% fill factor for improved energy conversion efficiency
- 25 Years Linear Performance Warranty

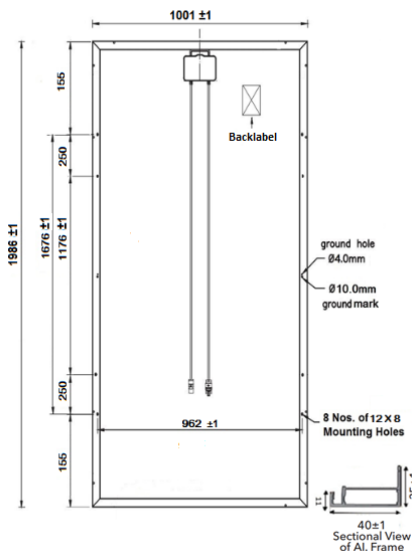


# MONOCRYSTALLINE PERC 72 CELL 5BB PV MODULE

## Module Encapsulation

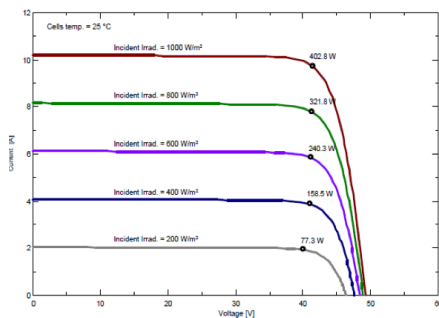


## Mounting Diagram Details



All Dimensions are in mm

## Current Voltage Curve



## TECHNICAL SPECIFICATIONS

| ELECTRICAL SPECIFICATIONS (STC)            |   |           |           |           |           |
|--|---|-----------|-----------|-----------|-----------|
| Model                                      | PIL 380HM   | PIL 385HM | PIL 390HM | PIL 395HM | PIL 400HM |
| Max. Power (Pm) in Watts (0 to +3%)        | 380   | 385       | 390       | 395       | 400       |
| Open Circuit Voltage (Voc) in Volts (± 3%) | 48.65   | 48.72     | 48.85     | 49.04     | 49.28     |
| Short Circuit Current (Isc) in Amps (± 5%) | 9.9   | 10        | 10.1      | 10.15     | 10.2      |
| Voltage at Max Power (Vmp) in Volts        | 39.97   | 40        | 40.14     | 40.32     | 40.46     |
| Current at Max Power (Imp) in Amps         | 9.51  | 9.63      | 9.72      | 9.8       | 9.89      |
| Module Efficiency (%)                      | 19.11   | 19.37     | 19.62     | 19.87     | 20.12     |
| Fill Factor (%)                            | 78.92   | 79.06     | 79.08     | 79.38     | 79.61     |
| TEMPERATURE COEFFICIENT                    |   |           |           |           |           |
| Nominal Operating Cell Temperature (°C)    | 43 ± 2  |           |           |           |           |
| Coefficient of Current (Isc) α (%/°C)      | 0.05  |           |           |           |           |
| Coefficient of Voltage (Voc) β (%/°C)      | - 0.30  |           |           |           |           |
| Coefficient of Power (Pmax) γ (%/°C)       | - 0.40  |           |           |           |           |
| OPERATING CONDITIONS                       |   |           |           |           |           |
| Maximum System Voltage (Vdc)               | 1500  |           |           |           |           |
| Max. Series Fuse Rating in (A)             | 20  |           |           |           |           |
| Operating Temp. Range (°C)                 | -40 to +85  |           |           |           |           |
| Maximum Load Condition (snow or wind)      | Sustain Heavy wind & snow loads (2400 Pa & 5400 Pa or 550 Kg/m <sup>2</sup> ) |           |           |           |           |
| MODULE MECHANICAL DETAILS                  |   |           |           |           |           |
| Module Dimensions LxWxH (mm)               | 1986 X 1001 X 40  |           |           |           |           |
| Module Weight (Approx. in kg)              | 20  |           |           |           |           |
| No. of Cells & size (mm)                   | 72 cells, 158.75 X 158.75   |           |           |           |           |
| Frame Material                             | Anodized Aluminium  |           |           |           |           |
| Glass                                      | 3.2mm, Anti-reflective coated low iron Mat-Mat tempered solar glass           |           |           |           |           |
| Junction Box                               | TUV Approved Non-potted IP 67 rated with 3 Bypass diodes (4 T / 3 D )         |           |           |           |           |
| Cable Connector                            | 4 sqm. (12AWG) solar cable 1200mm X 2 nos Black MC4 compatible connectors     |           |           |           |           |
| No. of Grounding Holes                     | 1 nos. of Dia. 4mm on each length side  |           |           |           |           |
| Mounting hole size (mm)                    | 8 Oblong of size 8 X 12   |           |           |           |           |
| PACKING & SHIPPING DETAILS                 |   |           |           |           |           |
| Number of Modules per Pallet               | 28  |           |           |           |           |
| Pallet Box Dimensions LxWxH (mm)           | 2015 x 1160 x 1130  |           |           |           |           |
| Number of Pallets Per Container            | 10  |           |           |           |           |
| Gross Weight of Pallet Box (Approx. in kg) | Max. 670  |           |           |           |           |

Note: Specifications are subject to change

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