

Diamond Series 72 Mono PERC



**NEW
LAUNCH**

**400_{WP}
MONO
PERC**

Excellent performance under all climatic conditions.

Record breaking power output.

Ideal for large scale installations ,reduce
Bos cost & space .

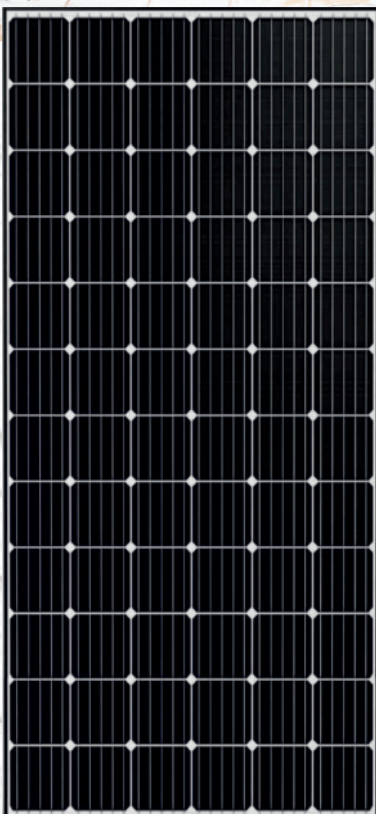
Highly reliable due to stringent quality control

Efficiency : $\geq 20.20\%$

Low LID/High Power/PID Resistant .

Excellent performance at lower irradiance

Sustain heavy wind & snow loads .



Insolation Energy Pvt. Ltd.

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Works : 25 KM Milestone, Jaipur - Delhi Bypass, Near Daulatpura Toll
Tax, Vill - Bagwara, Jaipur - 303805 (Rajasthan) INDIA [M] : +91-9116122135/36

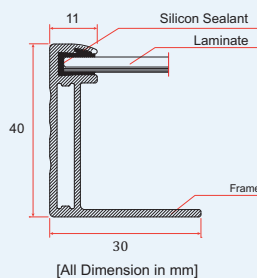
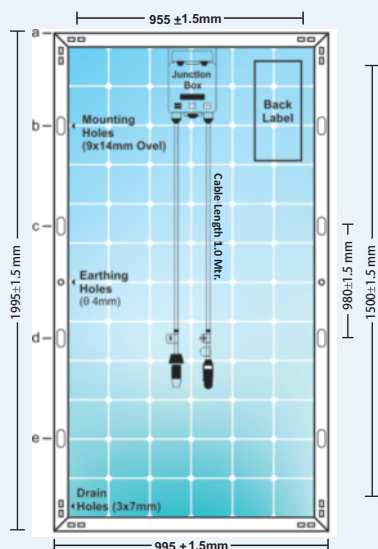
Delhi Off. : 502A, Arunachal Building, 19, Barakhamba Road,
New Delhi- 110001, INDIA ☎ 011-43723333

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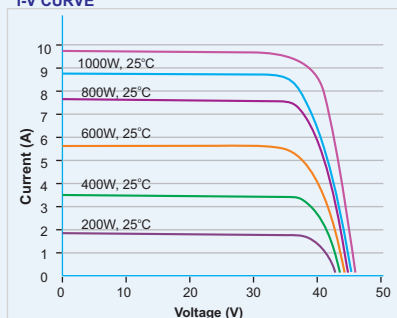


Toll Free No. ☎ 1800 212 1806

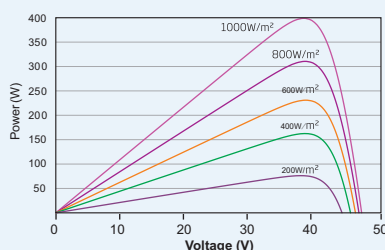
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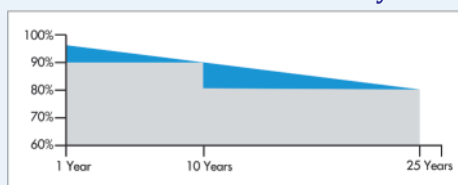
I-V CURVE



P-V CURVE



Performance Warranty



TECHNICAL DATA

Electrical Data : All Data refers to STC (1000W/m² , AM1.5G , 25°C)

| Type | INA 72 MP 400 |
|-------------------------------|---------------|
| Peak Power Pmax (Wp) | 400 WP |
| Maximum Voltage Vmpp(V) | 41.2 V |
| Maximum Current Impp(A) | 9.72 A |
| Open Circuit Voltage Voc (V) | 49.79 V |
| Short Circuit Current Isc (A) | 10.31 A |
| Module Efficiency (%) | 20.17 |

STC : 1000W/m² irradiance, 25°C cell temperature, AM1.5G spectrum according to EN 60904-3
2 Average relative efficiency reduction of < 5% at 200W/m according to EN 60904-1

Electrical Parameters at NOCT

| | |
|---------------------------------|---------|
| Peak Power Pmax (Wp) | 297 Wp |
| Maximum Power Voltage V@Pmax(V) | 38.11 V |
| Maximum Power Current I@Pmax(A) | 7.82 A |
| Open Circuit Voltage Voc (V) | 46.18 V |
| Short Circuit Current Isc (A) | 8.28 A |

NOCT irradiance 800 W/m², ambient temperature 45±2 °C wind speed 1 m/sec

Temperature Coefficients (Tc) permissible operating conditions

| | |
|---------------------------------|------------------|
| Tc of Open Circuit Voltage (β) | -0.3%/°C ± 0.02 |
| Tc of Short Circuit Current (α) | 0.05 %/°C ± 0.01 |
| Tc of Power (γ) | -0.39%/°C ± 0.02 |
| NOCT | 45±2°C |
| Maximum Series Fuse Ratings | 20 A |
| Temperature Range | -40°C to +85 °C |
| Maximum System Voltage | 1500 V DC |
| Max Reverse Current | 20A |

MECHANICAL DATA

| | |
|--------------------------------|---|
| Length x Width x Height(in mm) | 1995mm x 995mm x 40mm (± 1.5 mm) |
| Weight | 24.00 Kg |
| Junction Box | IP 67 / IP 68 rated with 3 Bypass diodes |
| Cable & Connectors | 4 sqm (12AWG) solar cable 1000mm x 2 nos black MC4 / MC4 compatible connectors |
| Application Class | Class A (Safety class II) |
| Substrate (Glass) | 3.2 High transmission low iron tempered glass AR coated |
| Solar cells & Orientation | 72 No's (12x6) Mono PERC solar cells |
| Cells Encapsulant | EVA (Ethylene Vinyl Acetate)- FC/UFC |
| Back Sheet | Composite film - White : (Black & Transparent optional) |
| Frame | Silver Anodized aluminum frame with twin wall profile (Black Optional) |
| Mechanical Load Test | Sustain Heavy wind & snow loads (2400 Pa & 5400 Pa or 550 Kg/m ² Maximum diameter of 24 mm with Hail impact of 83 Km/h |

WARRANTY AND CERTIFICATIONS

| | |
|-------------------------------|---|
| Performance Warranty** | Linear Power Warranty for 25 years, 90% for 10 years and 80% for 25 years |
| Approvals and certificates*** | Products : IEC 61215:2005 - Ed 2, IEC 61730- Ed. 1 & Ed.2 IEC 61701, IEC 62804, MNRE, UL, CE , IS : 14286 |

⚠ CAUTION: READ SAFETY AND DETAIL INSTALLATION MANUAL BEFORE USING THE PRODUCT (Refer Our Website).

** Refer to Insolation energy warranty documents for terms and conditions.

**Specifications included in this datasheet are subject to change without notice, Electrical data without guarantee. Please confirm your requirement with the company representative while placing your order.

***Certification is under process

