

# Sunlit

High Performance Mono Perc PV Modules

**M श्री**  
**MATRI SHREE**  
We Value our Customers

## SUNLIT SERIES

- Using highly efficient **PASSIONATED EMITTER REAR CONTACT TECHNOLOGY (PERC) CELLS**
- **Exceptional performance** under **low-light** and **high temperature** conditions.
- **Higher energy density per square meter** than conventional multicrystalline cells.
- **Increased light absorption**, as unabsorbed light is **reflected back** to the **solar cell**.
- **Superior anti-reflective coating** captures more light to deliver **increased efficiency**.

**up to 19.86%**  
EFFICIENCY

**365-385 Wp**  
RANGE

**72** MONO PERC  
SOLAR CELLS

**27** YEARS\*  
WARRANTY

**12%**  
**HIGHER  
POWER  
OUTPUT**

Term & Condition Apply

**PERC technology** boosts efficiency through the addition of a layer to the back of a traditional solar cell, which provides several benefits to the cell's production.

**PERC solar cells** are an **exciting technology** because of the efficiency gains they provide over standard solar cells.



**Green**  **Solar**  
*energy of the future*

# TECHNICAL SPECIFICATION

# Sunlit

High Performance Mono Perc PV Modules

## Electrical Data

All data refers to STC

|                                    |       |       |       |       |       |
|------------------------------------|-------|-------|-------|-------|-------|
| Peak Power $P_{max}$ (Wp)          | 365   | 370   | 375   | 380   | 385   |
| Maximum Voltage $V_{mpp}$ (V)      | 39.8  | 40.0  | 40.1  | 40.2  | 40.3  |
| Maximum Current $I_{mpp}$ (A)      | 9.17  | 9.26  | 9.36  | 9.46  | 9.56  |
| Open Circuit Voltage $V_{oc}$ (V)  | 48.3  | 48.5  | 48.7  | 48.8  | 48.9  |
| Short Circuit Current $I_{sc}$ (A) | 9.73  | 9.84  | 9.94  | 10.04 | 10.14 |
| Module Efficiency $\eta$ (%)       | 18.81 | 19.07 | 19.33 | 19.58 | 19.86 |

## Temperature Coefficients (Tc) permissible operating conditions

|  |                 |
|--|-----------------|
| Tc of Open Circuit Voltage ( $\beta$ )   | - 0.28%/°C      |
| Tc of Short Circuit Current ( $\alpha$ ) | 0.057%/°C       |
| Tc of Power ( $\gamma$ )                 | -0.39%/°C       |
| Maximum System Voltage                   | 1500 V          |
| NOCT                                     | 45°C $\pm$ 2°C  |
| Temperature Range                        | -40°C to + 85°C |

## Mechanical Data

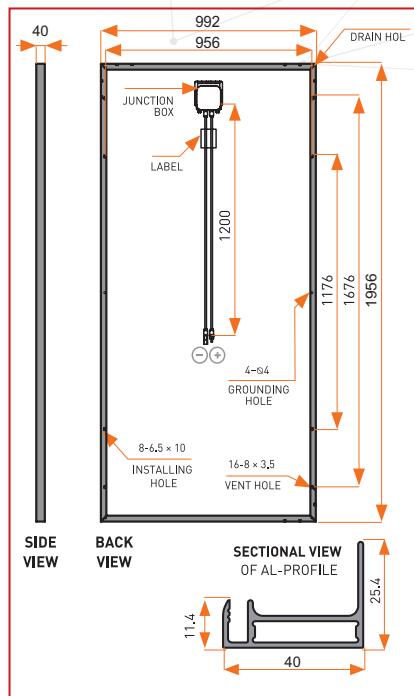
|                                       |  |
|---------------------------------------|--|
| Length $\times$ Width $\times$ Height | 1956 $\times$ 992 $\times$ 40 mm   |
| Weight                                | 22.5 kg  |
| Junction Box                          | IP68/IP67, 3 Bypass diodes   |
| Cable & Connectors                    | 1200 mm (47.24 inches) length cables, MC4 Compatible/MC4 Connectors/Amphenol |
| Application Class                     | Class A (Safety class II)  |
| Superstrate <sup>#</sup>              | 3.2 mm (0.13 inches) high transmission low iron tempered glass, AR coated    |
| Cells                                 | 72 Mono PERC, 5BB solar cells  |
| Cell Encapsulant                      | EVA (Ethylene Vinyl Acetate)   |
| Back Sheet                            | Composite film   |
| Frame                                 | Anodized aluminium frame with twin wall profile                              |
| Mechanical Load Test                  | 5400 Pa (Snow load), 2400 Pa (Wind load)                                     |
| Maximum Series Fuse Rating            | 15 A   |

<sup>#</sup> Also available in anti-soil and anti-glare

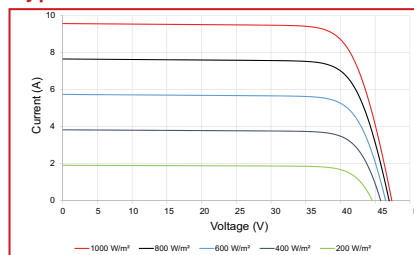
## Warranty and Certifications

|                        |  |
|------------------------|--|
| Product Warranty**     | 10 years   |
| Performance Warranty** | Linear Power Warranty for 27 years with 3% for 1st year degradation and 0.65% from year 2 to year 27 |

## Dimensions in mm

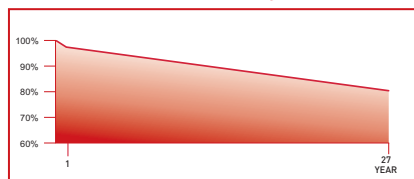


## Typical I-V Curves



4) Average relative efficiency reduction of 5% at 200 W/m² according to EN 60904-1.

## Performance Warranty



Conformity to Standards : ISO 9001 : 2015 | IS 14286 : 2010 | IS 61730 : (Part 1 & 2) | PID Free



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energy of the future

## Matri Shree Techno Industries

Premium PV Module Manufacturer

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# Module image for representation purpose only. Due to continues product updation, specification may change without prior notice.