Get SUNplugged
Adani Solar, the Solar PV manufacturing arm of Adani Group, a diversified business conglomerate in India, comprising 9 publicly traded companies. It has created world-class energy & utilities and transport & logistics infrastructure portfolios with a pan-India presence.

Adani Solar is India's 1st and largest vertically integrated solar company with 4 GW manufacturing capacity, that offers products along with services across the spectrum of photovoltaics manufacturing. The cutting-edge technology with machines and equipments sourced from the best in class suppliers, aim to help in cost leadership, scale of operations and reliability standards as per global benchmarks.

Now, Adani Solar is building the world's 1st ever Fully Integrated and Comprehensive Solar Manufacturing Ecosystem of 10 GW in Mundra, India, encompassing the production of Metallurgical Grade Silicon, Poly silicon, Ingot, Wafer, Cells, and Modules and including ancillaries like Glass, EVA, Backsheet, Aluminium Frames, Junction Boxes etc.

Entrenched in Nation Building, Adani has aggressively led the technology-intensive manufacturing sector, through its state-of-the-art entities located at one of the largest, Electronics Manufacturing Clusters (EMC) in Mundra, India, spanning an area of about 800 acres.

Spurring India’s Growth with Goodness, Adani is well poised to embark on the Industrial Revolution.

### World-Class Solar Modules for you

Adani Solar’s cutting-edge technology, scale of operations, cost leadership and reliability, sets it apart from all other global competitors and supporting utilities. Adani Solar produces hi-tech solar panel modules using advanced technology and supplies reliable solar modules that are proven to meet the customer’s exact requirements.

- G12, M10 Bifacial PERC/ TopCon cells
- Half Cut, Multi Bus Bar Technology
- Ga/B doped Wafer Technology
- Module Efficiency upto 23.4%
- Excellent PID Resistance
- Linear Power Degradation as low as 0.40%
- Bifaciality Factor upto 80%
- Upto 30 Years Warranty

### SHINE Series

- Elan SHINE TOPCon 570+ Wp

### PRIDE Series

- Elan PRIDE 650+ Wp
Dawn of a New Era in the Solar Revolution

Building the World's first ever Fully Integrated and Comprehensive Solar manufacturing Ecosystem of 10 GW in Mundra, India

- Just in Time Supplies
- Reduced import dependency
- Seamless supply of key raw materials

10 GW of Metallurgical Grade Silica
10 GW of Polysilicon
10 GW of Ingots
10 GW of Wafers
10 GW of Solar Cell
10 GW of Solar Module

EVA Facility
Backsheet Facility
Glass Project
Aluminium Frame Facility
Cell & Module Facility
Warehouse
Training & Testing Lab

Adani's focus is on renewable energy to enable a responsible energy transition with accelerated footprints in the energy sector. Our proactive investment in Clean Energy and technologies validates our commitment to a sustainable future.
The Brighter Side of Business

- **Largest Indian vertically integrated Cell & Module Manufacturer**
- **Supreme Product Quality with Fully Integrated Plant**
- **Top Performer at PVEL from 2018 to 2023 (Highest reliability and best performance)**
- **In house EVA, Backsheet, Glass, Aluminium frames manufacturing with Superior process controls**
- **Modules Tested for 3 IEC Assuring superior reliability B linear warranty of PV Modules**
- **Audited by PI Berlin, Black & Veatch, TUV Rheinland**

**Locations & Capacities:**
- Oklahoma, USA: 289 KW
- Mundra, Gujarat, India: 2 MW
- Minnesota, USA: 2.8 MW
- EEISL, India: 140 KW
- Wadesboro, North Carolina, USA: 5 MW
- Hyundai, Chennai, India: 700 KW
- Moranbah, Queensland, Australia: 12 MW
- Andaman Nicobar, India: 3.6 MW
- Kamuthi, Tamil Nadu, India: 648 MW
- Lupin, Goa, India: 200 KW
ELAN SHINE
TOPCON Series

N-type
Bifacial Transparent Backsheet Modules

ASB-M10-144-AAA (AAA=550-575)
144 Cells | 550-575 Wp | Gen-I

Highlights

- **575+ Wp**
  Maximum Power Output

- **22.4%**
  Maximum Efficiency

- **0~+5W**
  Power Tolerance

Linear Performance Warranty

- Adani Linear Warranty
- STD Linear Warranty

- **Up to 30% Additional Power Generation** when compared with conventional P-type module
- **No LID Loss** which means more power generation
- **Better Output In Low Irradiance**
  Higher power output even under low-light environments like on cloudy or foggy days
- **Better Temperature Coefficient**
  Higher power generation under higher ambient temperature conditions

Delivers Reliable Performance Over Time

- Full-automatic facility and industry-leading technology
- Best-in-class durability and reliability
N-type Bifacial 144 Half-cut cell Module

### Electrical Properties

**STC**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Front Side</th>
<th>Front Side</th>
<th>Front Side</th>
<th>Front Side</th>
<th>Front Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Power (Pmax) (W)</td>
<td>550</td>
<td>555</td>
<td>560</td>
<td>565</td>
<td>570</td>
</tr>
<tr>
<td>MPP Voltage (Vmp) (V)</td>
<td>42.0</td>
<td>42.2</td>
<td>42.4</td>
<td>42.6</td>
<td>42.8</td>
</tr>
<tr>
<td>MPP Current (Imp) (A)</td>
<td>13.10</td>
<td>13.16</td>
<td>13.21</td>
<td>13.27</td>
<td>13.32</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc) (V)</td>
<td>50.2</td>
<td>50.4</td>
<td>50.6</td>
<td>50.8</td>
<td>51.0</td>
</tr>
<tr>
<td>Short Circuit Current (Iscc) (A)</td>
<td>13.87</td>
<td>13.93</td>
<td>13.99</td>
<td>14.05</td>
<td>14.11</td>
</tr>
<tr>
<td>Module Efficiency (%)</td>
<td>21.42</td>
<td>21.62</td>
<td>21.81</td>
<td>22.01</td>
<td>22.20</td>
</tr>
</tbody>
</table>

### Operating Temperature

- Operating Temperature (°C): -40~+85
- Maximum System Voltage (V): 1500V DC (IEC)
- Maximum Series Fuse Rating (A): 30
- Power Tolerance: 0~±5W
- Bifaciality*: 80%

### Temperature Coefficient

- Temperature Coefficient of Pmax*: -0.31%/°C
- Temperature Coefficient of Voc: -0.260%/°C
- Temperature Coefficient of Iscc: +0.046%/°C
- Nominal Operating Cell Temperature (NOCT)*: 42±2°C

### Mechanical Properties

- Cell Size: 182.00mm*91.00mm
- Number of Cells: 144 Half-cut
- Module Dimension: 2266mm*1133mm
- Weight: 28kg
- Front: 3.2mm
- Rear: Transparent Backsheet
- Frame: Anodized Aluminium Alloy
- Junction Box: 3 diodes
- Length of Cable: 4.0mm², 300mm (Cable length can be customized)

### With Different Power Generation Gain regarding 550W as an example

<table>
<thead>
<tr>
<th>Power Gain (%)</th>
<th>Peak Power (Pmax) (W)</th>
<th>MPP Voltage (Vmp) (V)</th>
<th>MPP Current (Imp) (A)</th>
<th>Open Circuit Voltage (Voc) (V)</th>
<th>Short Circuit Current (Iscc) (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>550</td>
<td>42.0</td>
<td>14.13</td>
<td>50.2</td>
<td>14.97</td>
</tr>
<tr>
<td>10</td>
<td>594</td>
<td>42.0</td>
<td>14.13</td>
<td>50.2</td>
<td>14.97</td>
</tr>
<tr>
<td>15</td>
<td>616</td>
<td>42.0</td>
<td>14.65</td>
<td>50.2</td>
<td>15.51</td>
</tr>
<tr>
<td>20</td>
<td>638</td>
<td>42.1</td>
<td>15.17</td>
<td>50.3</td>
<td>16.06</td>
</tr>
<tr>
<td>25</td>
<td>660</td>
<td>42.1</td>
<td>15.69</td>
<td>50.3</td>
<td>16.61</td>
</tr>
<tr>
<td>30</td>
<td>682</td>
<td>42.1</td>
<td>16.20</td>
<td>50.3</td>
<td>17.16</td>
</tr>
</tbody>
</table>

### Warranty and certifications

- Product warranty**: 12 years of product warranty
- Performance guarantee**: Power degradation <1.00% in first year <0.40% / year in 2-30 years
- Approvals and certificates*: IEC 61215 Ed2, IEC 61730, IEC 61701, UL 61730, MCS, JET, CEC, CEC-Aus, IEC 62716, IEC 62782, IEC 60068-2-68, IEC 61853, BIS

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*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement Adani Solar reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

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**Preliminary Datasheet**

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ELAN SHINE
Series
Bifacial PV Modules with Dual Glass,
MBB P-Type PERC Half-cut

Warranty based on Power
Adani Linear Warranty
STD Linear Warranty

ASB-M10-144-AAA (AAA=520-545)
144 Cells | 520-545 Wp

Highlights
Higher generation due to bifacial technology
MBB cell technology - excellent anti-
microcracking performance with more balanced interior
grid pattern, lower cost
Up to 70 ± 5 % bifaciality Factor
Longer Product life and
performance -0.45% year
over year degradation with
30 years warranty on power

Modules made with Ga
doped wafer with
Smart soldering
Excellent PID
resistance
Least degradation for LID
& LeTID

Adani bifacial module
Monofacial module

5 \to \sqrt{\frac{h^2}{1+1}} \to \sqrt{\frac{h^2}{1+2}}

\[ 1 < 0 \text{ or } 5 < 9 \text{ or } 10 \text{ or } 15 \]

\[ 1 < 0 \text{ or } 5 < 9 \text{ or } 10 \text{ or } 15 \]
**Technical Data**

**Multi Irradiance Curve**

**Bifacial M10-144 HC Cell Module**

Cell temp: 25°C

<table>
<thead>
<tr>
<th>Voltage (V)</th>
<th>Current (A)</th>
<th>Power (Wp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>10</td>
<td>540</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td>433</td>
</tr>
<tr>
<td>12</td>
<td>5</td>
<td>324</td>
</tr>
<tr>
<td>14</td>
<td>4</td>
<td>214</td>
</tr>
<tr>
<td>16</td>
<td>3</td>
<td>105</td>
</tr>
</tbody>
</table>

Incidence Irradiance:
- 1000 W/m²
- 800 W/m²
- 600 W/m²
- 400 W/m²
- 200 W/m²

**Note:**
- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.

**Warranty and certifications**

- **Product warranty:** 12 years of product warranty
- **Performance guarantee:** Power degradation < 2.0% in first year; < 0.45% / year in 2-30 years

**Approvals and certificates**

- IEC 61215, IEC 61730, BIS, UL 61730, IEC 61853, IEC 62716, IEC 60068-2-68, IEC 61701, IEC 62716, IEC 61853-2

**Mechanical data**

- **Length:** 5979 mm
- **Width:** 1563 mm
- **Height:** 98 mm

**Electrical data**

- ** rated output:** 525 Wp
- **Maximum System Voltage:** 1000 VDC (IEC & UL)
- **Temperature range:** -40°C to +85°C

**Packaging Configuration**

- **Pallets / Container:** 20 Pieces / Container
- **Dimensions:** 2266 x 1133 x 35 mm
- **Weight:** 33.5 kg

**Temperature co-efficients (°C) and permissible operating conditions**

2. G=GHF: A; M= NGBF9 = bj c  
S5 M s q !

2. G=GHG: A; M= NGBF = bj c  
S5 BS s q !

2. G=HDP: bj c  
S5 M s q !

+9PAE M= NQLE NGBF9 = TSSS 5 eN !

-12  
Wk! UJ!  

2E H! SJM = 9F7 =  
W5! LG [2X]  

**Electrical data – All data measured to STC**

- **Rated output:** 525 Wp
- **Maximum System Voltage:** 1000 VDC (IEC & UL)
- **Temperature range:** -40°C to +85°C

**Electrical Specification Only for STC**

- Vmp (V): 41.18
- Impp (A): 12.65
- Voc (V): 48.60
- Isc (A): 13.41
- Module efficiency (%): 20.25

- Vmp (V): 41.64
- Impp (A): 12.86
- Voc (V): 49.12
- Isc (A): 13.63
- Module efficiency (%): 20.83

- Vmp (V): 41.49
- Impp (A): 12.79
- Voc (V): 48.95
- Isc (A): 13.55
- Module efficiency (%): 20.64

- Vmp (V): 41.34
- Impp (A): 12.72
- Voc (V): 48.78
- Isc (A): 13.48
- Module efficiency (%): 20.44

- Vmp (V): 41.80
- Impp (A): 12.93
- Voc (V): 49.32
- Isc (A): 13.71
- Module efficiency (%): 21.03

- Vmp (V): 41.94
- Impp (A): 13.01
- Voc (V): 49.48
- Isc (A): 13.79
- Module efficiency (%): 21.22

**Power gain from rear side**

- 10%: 575 Wp
- 15%: 600 Wp
- 20%: 630 Wp
- 25%: 650 Wp

**Packaging Configuration**

- **Pallets / Container:** 20 Pieces / Container
- **Dimensions:** 2266 x 1133 x 35 mm
- **Weight:** 33.5 kg

**Mechanical data**

- **Length:** 5979 mm
- **Width:** 1563 mm
- **Height:** 98 mm

**Electrical characteristics with different rear side power gain (reference 525 Wp front)**

- -0.30% /°C
- 0.050% /°C
- -0.38% /°C
- 0.150°C

**Maximum system voltage (V)**

- NOCT: 1500 VDC (IEC & UL)

**Safety Factor for Mechanical load**

- 30 A

**Design Mechanical load**

- 2500 Pa
- 3000 Pa
- 3500 Pa

**Technical Data**

- **Stc:** Irradiance 1000 W/m², cell temperature 25°C, A mass AM 1.5 according to EN 60904-3. Average efficiency reduction of 4.5% at 200 W/m² according to EN 60904-1. Except Pmpp, all other parameters have a tolerance of ± 3%, measurement uncertainty ± 3%.

www.adanisolar.com
ELAN SHINE
Series
Bifacial PV Modules with Transparent
Backsheet, MBB P-Type PERC Half-cut

Highlights
Higher generation due to bifacial technology
MBB cell technology - excellent anti-microcracking performance
with more balanced interior stress: grid pattern
current path, lower cost
Up to 70 ± 5 % bifaciality Factor
Longer Product life and performance -0.45% year
over year degradation with 30 years warranty on power
Least degradation for LID & LeTID
Modules made with Ga doped wafer with Smart soldering
Excellent PID resistance

Guaranteed Power Performance Years
**Technical Data**

### Multi Irradiance Curve

#### Bifacial M10-144 HC Cell Module

- **Cell temp:** 25°C

#### Electrical Characteristics

- **Voltage (V)**
  - 4
  - 8
  - 12
  - 14

- **Current (A)**
  - 10

- **Power (Wp)**
  - 435
  - 429
  - 321
  - 212
  - 103

- **Incidence Irradiance**
  - 1000 W/m²
  - 800 W/m²
  - 600 W/m²
  - 400 W/m²
  - 200 W/m²

#### Peak Power, Maximum Voltage, Maximum Current, Open Circuit Voltage, Short Circuit Current, Module Efficiency (%)

- **Pmax (Wp)**
  - 520
  - 535
  - 530
  - 525
  - 540
  - 545

- **Vmp (V)**
  - 41.18
  - 41.64
  - 41.49
  - 41.34
  - 41.80

- **Imp (A)**
  - 12.65
  - 12.86
  - 12.79
  - 12.73
  - 12.93

- **Voc (V)**
  - 535
  - 541
  - 540
  - 539
  - 540

- **Isc (A)**
  - 20.25
  - 20.83
  - 20.44
  - 20.44
  - 21.03

- **Module Efficiency (%)**
  - 520
  - 41.18
  - 12.65
  - 48.60
  - 13.41
  - 20.25
  - 535
  - 41.64
  - 12.86
  - 49.12
  - 13.63
  - 20.83
  - 530
  - 41.49
  - 12.79
  - 48.95
  - 13.55
  - 20.64
  - 525
  - 41.34
  - 12.73
  - 48.78
  - 13.48
  - 22.39
  - 540
  - 41.80
  - 12.93
  - 49.32
  - 13.71
  - 21.03
  - 545
  - 41.94
  - 13.01
  - 49.48
  - 13.79
  - 21.22

- **Bifaciality Gain**
  - 10%
  - 15%
  - 20%

#### Electrical Characteristics with different rear side power gain (Reference 525 Wp Front)

- **Temperature Sensitivity**
  - 0.26% /°C
  - 0.054% /°C
  - 0.32% /°C

- **Temperature of open circuit voltage (°C)**
  - Tmpv

- **Temperature of short circuit current (°C)**
  - Tmpv

- **Temperature of power (°C)**
  - Tmpv

- **Maximum system voltage (V)**
  - NOCT

- **Temperature range**
  - -40°C to + 85°C

#### Packaging Configuration

- **Pallets / Container**
  - 20 Pieces / Container

#### Mechanical Data

- **Length**
  - 1133 mm
  - 1092 mm

- **Width**
  - 1133 mm
  - 1092 mm

- **Height**
  - 35 mm

- **Weight**
  - 28.0 kg

#### Safety and Installation

- **Warranty**
  - 12 years of product warranty

- **Performance guarantee**
  - Power degradation <2.0% in first year <0.45% / year in 2-30 years

#### Approvals and Certificates

- **IEC 61215, IEC 61730, UL 61730, BIS, IEC 61853-1, IEC 62782, IEC 61853-2, IEC 61701, IEC 60068-2-68, IEC 62716**

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**Note:**

- Please read Adani solar warranty documents thoroughly.
- Warranty:
  - Please read safety and installation instructions before using the product.
- Caution:
  - Peak power, (0 ~+ 4.99 Wp)
  - Maximum voltage, Vmpp (V)
  - Maximum current, Impp (A)
  - Open circuit voltage, Voc (V)
  - Short circuit current, Isc (A)
  - Module efficiency (%)

---

**Electrical data – All data measured to STC**

<table>
<thead>
<tr>
<th>Electrical Specification</th>
<th>Power measurement</th>
<th>Voltage (V)</th>
<th>Current (A)</th>
<th>Power (Wp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-9°C HOD</td>
<td>15 Aq</td>
<td>5 Hc</td>
<td>4</td>
<td>10</td>
</tr>
<tr>
<td>+9°C HOD</td>
<td>15 Aq</td>
<td>5 Hc</td>
<td>435</td>
<td>535</td>
</tr>
<tr>
<td>+9°C</td>
<td>NEQ97=+14 HH</td>
<td>435</td>
<td>535</td>
<td></td>
</tr>
<tr>
<td>-9°C</td>
<td>NEQ97=+14 HH</td>
<td>435</td>
<td>535</td>
<td></td>
</tr>
<tr>
<td>+9°C</td>
<td>NEQ97=+14 HH</td>
<td>435</td>
<td>535</td>
<td></td>
</tr>
<tr>
<td>-9°C</td>
<td>NEQ97=+14 HH</td>
<td>435</td>
<td>535</td>
<td></td>
</tr>
<tr>
<td>+9°C</td>
<td>NEQ97=+14 HH</td>
<td>435</td>
<td>535</td>
<td></td>
</tr>
<tr>
<td>-9°C</td>
<td>NEQ97=+14 HH</td>
<td>435</td>
<td>535</td>
<td></td>
</tr>
</tbody>
</table>

**Electrical data only (STC):**

<table>
<thead>
<tr>
<th>Electrical Specification</th>
<th>Voltage (V)</th>
<th>Current (A)</th>
<th>Power (Wp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25°C</td>
<td>435</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>435</td>
<td>535</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Average efficiency reduction is approx 3% at 200 W/m² according to EN 60904-1.**

Except Pmpp, all other parameters have tolerance of +/-3%, measurement uncertainty <3%.

---

**Warranty and certifications**

- **Product warranty**
  - 12 years of product warranty

- **Performance guarantee**
  - Power degradation <2.0% in first year <0.45% / year in 2-30 years

### Mechanical data

- **Length:** 1133 mm

### Safety and Installation

- **Warranty:**
  - 12 years of product warranty

- **Performance guarantee:**
  - Power degradation <2.0% in first year <0.45% / year in 2-30 years

### Approvals and certificates

- **IEC 61215, IEC 61730, UL 61730, BIS, IEC 61853-1, IEC 62782, IEC 61853-2, IEC 61701, IEC 60068-2-68, IEC 62716**
ETERNAL SHINE
Monofacial PV Modules
MBB P-Type PERC Half-cut
ASM-M10-144-AAA (AAA=520-545)
144 Cells | 520-545 Wp

MBB cell technology with
10BB, smart soldering
High module conversion efficiency
upto 21.22%
Excellent low light performance
Least degradation for LID & LeTID with Ga Doped wafer technology
Excellent anti-micro cracking performance with more balanced interior stress: grid pattern
eXtreme PID resistance
Please read Adani solar warranty documents thoroughly.

**Warranty:**

- 12 years of product warranty
- Performance warranty:
  - Power degradation <2.0% in first year and <0.55% / year in 2-25 years

Approvals and certificates:

- IEC 61215, IEC 61730, UL 61215, UL 61730, BIS, IEC 61853-1, IEC 62782, IEC 61701, IEC 61853-2, IEC 60068-2-68, IEC 62716

Immediate and permissible operating conditions:

2°C ~ 40°C. For a given temperature and wind speed, the power is 
adjusted according to the adjustment factor shown in the graph.

Electrical data – All data measured to STC*:

### Electrical Specification

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>V_{oc}</td>
<td>430 Wp</td>
</tr>
<tr>
<td>I_{sc}</td>
<td>319 Wp</td>
</tr>
<tr>
<td>P_{max}</td>
<td>210 Wp</td>
</tr>
<tr>
<td>V_{mp}</td>
<td>102 Wp</td>
</tr>
<tr>
<td>I_{mp}</td>
<td>38.39</td>
</tr>
<tr>
<td>Efficiency</td>
<td>10.16</td>
</tr>
<tr>
<td>MSEL/MDL/PM/Rev0</td>
<td>45.43</td>
</tr>
<tr>
<td>Safety Factor for Mechanical load</td>
<td>10.90</td>
</tr>
<tr>
<td>Design Mechanical load</td>
<td>45.92</td>
</tr>
<tr>
<td>Safety Factor for Electrical load</td>
<td>11.02</td>
</tr>
<tr>
<td>Design Electrical load</td>
<td>46.28</td>
</tr>
<tr>
<td>Maximum series fuse rating</td>
<td>11.13</td>
</tr>
</tbody>
</table>

*STC: Irradiance 1000 W/m², cell temperature 25°C, Air mass AM 1.5 according to EN 60904-3. Average efficiency reduction is approx. 3% at 200 W/m² according to EN 60904-1. Expect P_{mp}, all other parameter have tolerance of +/-3%, measurement uncertainty <3%.

### Mechanical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>5000 mm</td>
</tr>
<tr>
<td>Height</td>
<td>1300 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>25 kg</td>
</tr>
<tr>
<td>Junction box</td>
<td>UV / IP 68</td>
</tr>
<tr>
<td>Cable and connectors</td>
<td>UV / IP 68</td>
</tr>
<tr>
<td>Application class</td>
<td>UV / IP 68</td>
</tr>
<tr>
<td>Superstrate</td>
<td>UV / IP 68</td>
</tr>
<tr>
<td>Encapsulation</td>
<td>UV / IP 68</td>
</tr>
<tr>
<td>Safety Factor for Mechanical load</td>
<td>UV / IP 68</td>
</tr>
<tr>
<td>Maximum series fuse rating</td>
<td>UV / IP 68</td>
</tr>
</tbody>
</table>

### Note:

- All parameter have a tolerance of +/-3%, measurement uncertainty <3%.
- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.

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**Temperature co-efficients (Tc) and permissible operating conditions:**

1. **NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec**
2. **NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec**

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**Warning:** Please read safety and installation instructions before using the product.

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