REC
N-PEAK SERIES
PREMIUM MONO N-TYPE SOLAR PANELS WITH SUPERIOR PERFORMANCE

- MONO N-TYPE: THE MOST EFFICIENT C-SI TECHNOLOGY
- NO LIGHT INDUCED DEGRADATION
- SUPER-STRONG FRAME UP TO 7000 PA SNOW LOAD
- FLEXIBLE INSTALLATION OPTIONS
- IMPROVED PERFORMANCE IN SHADED CONDITIONS
- GUARANTEED HIGH POWER OVER LIFETIME

330 WP
POWER

ELIGIBLE FOR PREMIUM MONO N-TYPE SOLAR PANELS WITH SUPERIOR PERFORMANCE
**ELECTRICAL DATA @ NOCT**

<table>
<thead>
<tr>
<th>Nominal Power - ( P_{\text{Max}} ) (Wp)</th>
<th>214</th>
<th>217</th>
<th>221</th>
<th>224</th>
<th>228</th>
<th>231</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Power Voltage - ( V_{\text{MPV}} ) (V)</td>
<td>311</td>
<td>314</td>
<td>317</td>
<td>320</td>
<td>322</td>
<td>324</td>
</tr>
<tr>
<td>Nominal Power Current - ( I_{\text{MPV}} ) (A)</td>
<td>6.86</td>
<td>6.91</td>
<td>6.97</td>
<td>7.01</td>
<td>7.08</td>
<td>7.14</td>
</tr>
<tr>
<td>Open Circuit Voltage - ( V_{\text{OC}} ) (V)</td>
<td>36.7</td>
<td>37.1</td>
<td>37.4</td>
<td>37.7</td>
<td>38.0</td>
<td>38.3</td>
</tr>
<tr>
<td>Short Circuit Current - ( I_{\text{SC}} ) (A)</td>
<td>7.53</td>
<td>7.57</td>
<td>7.61</td>
<td>7.65</td>
<td>7.69</td>
<td>7.73</td>
</tr>
</tbody>
</table>

Values at standard test conditions (STC: air mass AM1.5, irradiance 1000 W/m², temperature 25°C), based on a production spread with a tolerance of \( P_{\text{Max}}, V_{\text{MPV}}, I_{\text{SC}} \) ±3% within one watt class. *Where xxx indicates the nominal power class (Pxxx) at STC above.

**ELECTRICAL DATA @ STC**

<table>
<thead>
<tr>
<th>Nominal Power - ( P_{\text{Max}} ) (Wp)</th>
<th>305</th>
<th>310</th>
<th>315</th>
<th>320</th>
<th>325</th>
<th>330</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Power Voltage - ( V_{\text{MPV}} ) (V)</td>
<td>33.3</td>
<td>33.6</td>
<td>33.9</td>
<td>34.2</td>
<td>34.4</td>
<td>34.6</td>
</tr>
<tr>
<td>Open Circuit Voltage - ( V_{\text{OC}} ) (V)</td>
<td>39.3</td>
<td>39.7</td>
<td>40.0</td>
<td>40.3</td>
<td>40.7</td>
<td>41.0</td>
</tr>
<tr>
<td>Short Circuit Current - ( I_{\text{SC}} ) (A)</td>
<td>10.6</td>
<td>10.12</td>
<td>10.17</td>
<td>10.22</td>
<td>10.28</td>
<td>10.33</td>
</tr>
<tr>
<td>Panel Efficiency (%)</td>
<td>18.3</td>
<td>18.6</td>
<td>18.9</td>
<td>19.2</td>
<td>19.5</td>
<td>19.8</td>
</tr>
</tbody>
</table>

Values at standard test conditions (STC: air mass AM1.5, irradiance 1000 W/m², temperature 25°C), based on a production spread with a tolerance of \( P_{\text{Max}}, V_{\text{MPV}}, I_{\text{SC}} \) ±3% within one watt class. *Where xxx indicates the nominal power class (Pxxx) at STC above.

**GENERAL DATA**

- **Cell type:** 120 half-cut n-type mono c-Si cells
- **Glass:** 0.13” (3.2 mm) solar glass with anti-reflection surface treatment
- **Backsheet:** Highly resistant polymeric construction
- **Frame:** Anodized aluminum (black)
- **Junction box:** 3-part, 3 bypass diodes, IP67 rated
- **Cable:** 12 AWG (4 mm²) PV wire, 39 + 47” (1 m + 1.2 m)
- **Connectors:** Stäubli MC4 PV-KBT4/KST4, 12 AWG (4 mm²)
- **Origin:** Made in Singapore

**MECHANICAL DATA**

- **Dimensions:** 65.9 x 39.25 x 11” (1675 x 997 x 30 mm)
- **Area:** 1798 ft² (167 m²)
- **Weight:** 39.7 lbs (18 kg)

**MAXIMUM RATINGS**

- **Operational temperature:** -40...+85°C
- **Maximum system voltage:** 1000 V
- **Design load (+) snow:** 4666 Pa (975 lbs/ft²)
- **Maximum load (+) wind:** 700 Pa (146 lbs/ft²)
- **Max series fuse rating:** 20 A
- **Max reverse current:** 20 A

*Calculated using a safety factor of 1.5

**TEMPERATURE RATING**

- **Nominal Operating Cell Temperature:** 44°C (112°F)
- **Temperature coefficient of \( P_{\text{Max}} \):** -0.35 %/°C
- **Temperature coefficient of \( V_{\text{OC}} \):** -0.27 %/°C
- **Temperature coefficient of \( I_{\text{SC}} \):** 0.04 %/°C

The temperature coefficients stated are linear values

**LOW LIGHT BEHAVIOUR**

Typical low irradiance performance of module at STC.

**CERTIFICATIONS**

- UL 1703 (Fire Type 2), IEC 61215, IEC 61730 & UL 1703, DL 61730, MCS 005, IEC 62804, IEC 61701, IEC 62716, IEC 62782
- CERTIFICATE BBA 0148
- IEC 61215 & IEC 61730, UL 61730, IEC 62716, IEC 62782
- IEC 62716, IEC 62782
- IEC 62852
- IEC 61701
- IEC 61730 & UL 1703
- UL 61730, IEC 61730
- UL 1703
- IEC 61730 & IEC 61730
- UL 1703
- IEC 61730 & IEC 61730
- UL 1703
- IEC 61730 & IEC 61730
- UL 1703
- IEC 61730 & IEC 61730
- UL 1703

**WARRANTY**

<table>
<thead>
<tr>
<th>Warranty</th>
<th>Standard</th>
<th>RECProTrust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installed by an REC</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Certified Solar Professional</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>System size</td>
<td>any</td>
<td>&lt;25 kW</td>
</tr>
<tr>
<td>Product Warranty [yrs]</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td>Power Warranty [yrs]</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>Labor Warranty [yrs]</td>
<td>0</td>
<td>25</td>
</tr>
<tr>
<td>Power in Year 1</td>
<td>98%</td>
<td>98%</td>
</tr>
<tr>
<td>Annual Degradation</td>
<td>0.5%</td>
<td>0.5%</td>
</tr>
<tr>
<td>Power in Year 25</td>
<td>86%</td>
<td>86%</td>
</tr>
</tbody>
</table>

See warranty documents for details. Some conditions apply.

Founded in Norway in 1996, REC is a leading vertically integrated solar energy company. Through integrated manufacturing from silicon to wafers, cells, high-quality panels and extending to solar solutions, REC provides the world with a reliable source of clean energy. REC’s renowned product quality is supported by the lowest warranty claims rate in the industry. REC is a Bluestar Elkem company with headquarters in Norway and operational headquarters in Singapore. REC employs around 2,000 people worldwide, producing 1.5 GW of solar panels annually.

www.recgroup.com

*Specifications subject to change without notice.*