**KD140GH-2PU**

High efficiency multicrystal photovoltaic module

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**CUTTING-EDGE TECHNOLOGY**

- **Cell:**
  - 156 mm × 156 mm
  - Polycrystalline, 3-busbar
  - >16% efficiency
  - Embedded in EVA film
  - Patented RIE process: very little light reflection, homogenous dark coloration

- **Frame:**
  - Aluminium, black anodised and coated
  - Screwed and also adhered
  - Strength: 5,400 N/m²
  - Interior drainage openings to protect against frost damage
  - Approved for module inlay systems
  - Flexible assembly (horizontal and upright)

- **Junction box:**
  - Incl. bypass diodes
  - Encapsulated
  - Highest fireproof class 5V-A in accordance with UL94
  - Over-voltage proof Si-p/n bypass diodes
  - Pre-configured with connection wires and original multi-contact plug connectors

- **Pairing:**
  - Sorting procedure: Nominal output is achieved by two paired modules (≥280 Wp for 2 × KD140GH-2PU)

- **Production:**
  - Fully automated and integrated production processes in our own production plants
  - No intermediate products are purchased
  - 100% final inspection

- **Service:**
  - Professional Europe-wide customer service in Esslingen/Germany

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**COMPANY**

As a pioneer in the photovoltaic sector, Kyocera Solar can look back on over 35 years of experience. We are also involved in numerous future-oriented solutions across the world. Our focus is on innovation and quality.

Our vision: To make solar energy accessible to everybody and to ensure a comprehensive sustained energy supply.

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TUVdotCOM Service: Internet platform for tested quality and service
TUVdotCOM-ID: 0000023299
IEC 61215 ed. 2, IEC 61730 and Safety Class II
Kyocera is ISO 9001, ISO 14001 and OHSAS18001 certified and registered.

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We care! Since 1975.
**ELECTRICAL CHARACTERISTICS**

Current-Voltage characteristics at various cell temperatures

- **Irradiance:** AM 1.5, 1 kW/m²
- **Cell temperature:** 25 °C

Current-Voltage characteristics at various irradiance levels

- **Cell temperature:** 25 °C

**ELECTRICAL PERFORMANCE**

<table>
<thead>
<tr>
<th>PV Module Type</th>
<th>KD140GH-2PU</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>At 1000 W/m² (STC)</strong></td>
<td></td>
</tr>
<tr>
<td>Maximum Power</td>
<td>[W] 140</td>
</tr>
<tr>
<td>Maximum System Voltage</td>
<td>[V] 1000</td>
</tr>
<tr>
<td>Maximum Power Voltage</td>
<td>[V] 17.7</td>
</tr>
<tr>
<td>Maximum Power Current</td>
<td>[A] 7.91</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc)</td>
<td>[V] 22.1</td>
</tr>
<tr>
<td>Short Circuit Current (Isc)</td>
<td>[A] 8.68</td>
</tr>
<tr>
<td>Efficiency</td>
<td>[%] 13.9</td>
</tr>
</tbody>
</table>

| **At 800 W/m² (NOCT)** | |
| Maximum Power | [W] 101 |
| Maximum System Voltage | [V] 16.0 |
| Maximum Power Voltage | [V] 6.33 |
| Open Circuit Voltage (Voc) | [V] 20.2 |
| Short Circuit Current (Isc) | [A] 7.03 |
| NOCT | [°C] 45 |

**DIMENSIONS**

- **Length** | [mm] 1500 (± 2.5) |
- **Width** | [mm] 668 (± 2.5) |
- **Depth / incl. Junction Box** | [mm] 46 |
- **Weight** | [kg] 12.5 |
- **Cable** | (+) 1010 / (-) 840 |
- **Connection Type** | MC PV-KBT3 / MC PV-KST3 |
- **Junction Box** | [mm] 113 × 82 × 15 |
- **Number of bypass diodes** | 2 |
- **IP Code** | IP65 |

**CELLS**

- **Number per Module** | 36 |
- **Cell Technology** | polycrystalline |
- **Cell Shape (square)** | [mm] 156 × 156 |
- **Cell Bonding** | 3-Busbar |

**GENERAL INFORMATION**

- **Performance Guarantee** | 10*** / 20 years **** |
- **Warranty** | 10 years ***** |

Your local Kyocera dealer:

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