

## POLY CRYSTALLINE HALF-CUT CELL MODULE

275 / 280 / 285 / 290 / 295 / 300 Watts

# Amur Leopard

## Overview

Ground breaking technology; higher power output of up to 10W, improved system performance - the ideal solution for end users who want a fast turnaround on their investments. A fully certified premium quality and high efficiency module made with A Grade materials.

## Key Benefits



Certified by Independent Engineering Bodies



Boost Power Output up to 10W



Manufactured & Tested at European Standards



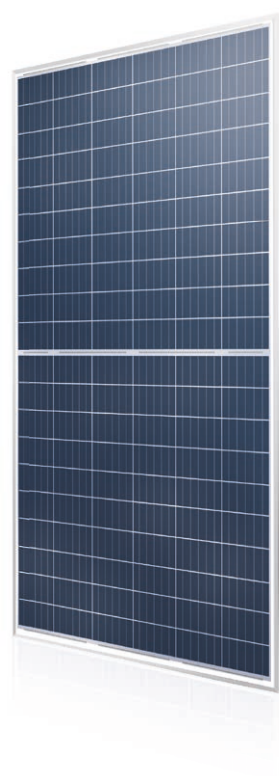
Reduce Resistive Losses



Better Performance in Reduced Irradiance Conditions



Higher Light Conversion



Guaranteed mechanical resistance to severe weather conditions



Guaranteed Positive Tolerance up to 5W

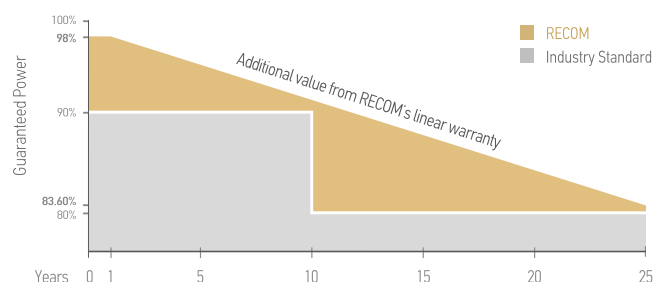


100 % electro-luminescence tested

## Tests, Certifications and Warranties

|                               |   |
|-------------------------------|---|
| Standard Tests                | IEC 61215, IEC 61730  |
| Factory Quality Tests         | ISO 9001: 2008, ISO 14001: 2004   |
| Certifications                | Fire Rating Type 1, conformity to CE, PV CYCLE  |
| Insurance                     | Product liability insurance provided by Allianz   |
| Surface Maximum Load Capacity | Above 5400Pa  |
| Positive Tolerance            | Guaranteed positive tolerance of up to 5W   |
| Junction Box                  | IP67 Rated, 3 diodes  |
| Warranties                    | <ul style="list-style-type: none"> <li>• 12-year limited product warranty</li> <li>• 15-year manufacturer warranty on 88.55% of the nominal performance</li> <li>• 25-year transferable linear power output warranty</li> </ul> |

## Linear Performance Warranty



First Year Output  $\geq 98\%$     2-24 Year Decline  $\leq 0.60\%$     25 Year Output  $\geq 83.60\%$

POLY CRYSTALLINE HALF-CUT CELL MODULE

RCM-xxx-6PH (xxx=275-300)

Electrical Characteristics

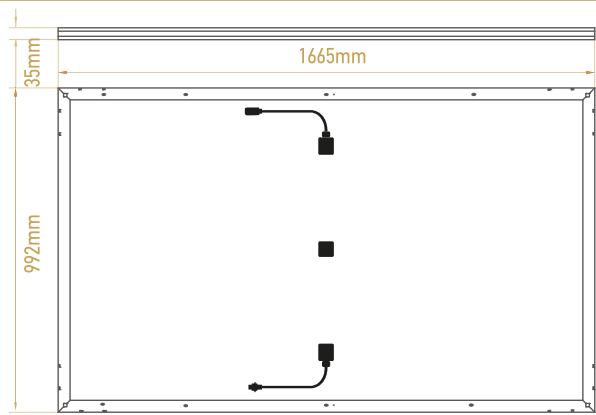
|                             |                 |        |        |        |        |        |
|-----------------------------|-----------------|--------|--------|--------|--------|--------|
| Rated Power                 | 275W            | 280W   | 285W   | 290W   | 295W   | 300W   |
| Power Tolerance             | 0~+5W           | 0~+5W  | 0~+5W  | 0~+5W  | 0~+5W  | 0~+5W  |
| Maximum Power Voltage (Vmp) | 31.91V          | 31.98V | 32.06V | 32.12V | 32.34V | 32.58V |
| Maximum Power Current (Imp) | 8.62A           | 8.76A  | 8.89A  | 9.04A  | 9.13A  | 9.22A  |
| Open Circuit Voltage (Voc)  | 37.65V          | 37.73V | 37.83V | 38.80V | 39.00V | 39.20V |
| Short Circuit Current (Isc) | 9.23A           | 9.37A  | 9.51A  | 9.71A  | 9.76A  | 9.82A  |
| Module Efficiency           | 16.65%          | 16.95% | 17.26% | 17.42% | 17.73% | 18.10% |
| Maximum Series Fuse         | 25A             | 25A    | 25A    | 25A    | 25A    | 25A    |
| Maximum System Voltage      | 1.000 VDC (IEC) |        |        |        |        |        |

Tested at Standard Test Conditions. Measurement tolerances: ± 3%

Mechanical Data

|               |   |
|---------------|---|
| Dimensions    | 1665mm x 992mm x 35mm   |
| Weight        | 18.6 Kg   |
| Frame         | Anodized aluminum   |
| Front Glass   | 3.2mm ARC, low iron, tempered glass   |
| Output Cables | TUV (2Pfg1169:2007), UL 4703, UL44 4.0mm <sup>2</sup> (0.006 in <sup>2</sup> ), MC4 type connectors |

Dimensions



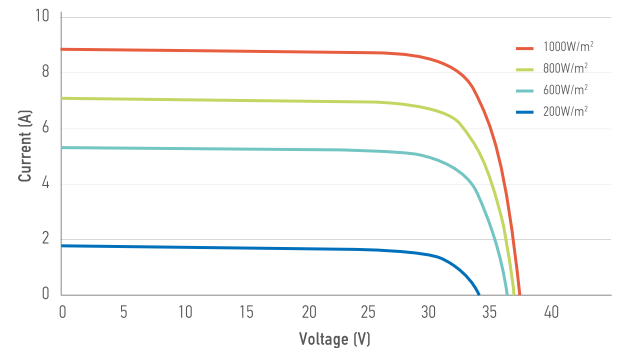
\*\*Release 2018-05, v6.1.  
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I-V Curve

The module relative power loss at low light irradiance of 200W/m<sup>2</sup> is less than 3%.



Temperature Characteristics

|   |             |
|---|-------------|
| Pmax Temperature Coefficient              | -0.40% / °C |
| Voc Temperature Coefficient               | -0.31% / °C |
| Isc Temperature Coefficient               | +0.05% / °C |
| Operating Temperature                     | -40~+85 °C  |
| Nominal Operating Cell Temperature (NOCT) | 45 ± 2 °C   |

Packing Configuration

|                       |       |
|-----------------------|-------|
| Container             | 40'HC |
| Pieces per Pallet     | 30    |
| Pallets per Container | 28    |
| Pieces per Container  | 840   |