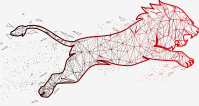


## BIFACIAL HJT MONO CRYSTALLINE HALF CUT MODULE – DOUBLE GLASS

725 / 730 / 735 / 740 / 745 / 750 Watts

### Lion Series

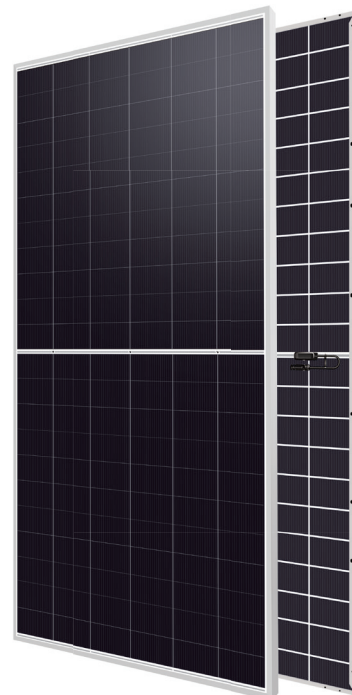


### Overview

Hetero Junction (HJT) photovoltaic module is a Ground breaking Technology. HJT technology guarantees high performance and low degradation of the PV module, substantially improving the results and the yield in the time. "Lion" Series module is the ideal solution for end users who want a Quality PV & reliable product over time and a fast turnaround on their investments.

### Key Benefits

|   |                               |   |                                   |
|---|-------------------------------|---|-----------------------------------|
|  | Anti-PID & LID Technology     |  | 30 Years Limited Product Warranty |
|  | Higher yield per surface area |  | Low Pmax at -0,24 % / °C          |
|  | Low LCOE                      |  | Higher Light Conversion           |



Guaranteed mechanical resistance to severe weather conditions



Positive Tolerance

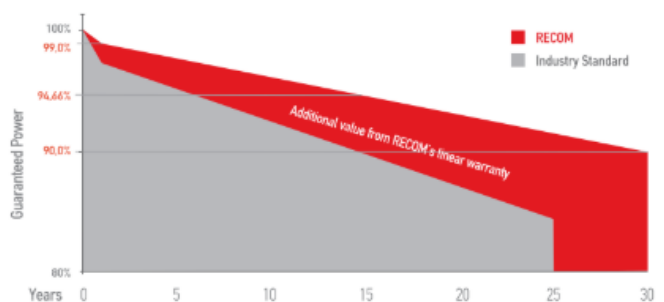


100 % electro-luminescence tested

### Tests, Certifications and Warranties

|                            |   |
|----------------------------|---|
| Standard Tests             | IEC 61215, IEC 61730  |
| Factory Quality Tests      | ISO 9001: 2015, ISO 14001: 2015   |
| Certifications             | Conformity to CE, PV CYCLE<br>Fire safety Class C according to UL790  |
| Wind and Snow Static Loads | Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)   |
| Withstanding Hail          | Maximum Diameter of 25 mm with impact speed of 23 m/s   |
| Power Tolerance            | Guaranteed +0/+5W (STC condition)   |
| Warranties                 | <ul style="list-style-type: none"> <li>• 30-year limited product warranty</li> <li>• 15-year manufacturer warranty on 94,66% of the nominal performance</li> <li>• 30-year transferable linear power output warranty</li> </ul> |

### Linear Performance Warranty



|                   |         |                   |         |                |         |
|-------------------|---------|-------------------|---------|----------------|---------|
| First Year Output | ≥ 99.0% | 2-30 Year Decline | ≤ 0.31% | 30 Year Output | ≥ 90.0% |
|-------------------|---------|-------------------|---------|----------------|---------|

# Lion

## BIFACIAL HJT MONO CRYSTALLINE HALF CUT MODULE – DOUBLE GLASS

RCM-xxx-8DBHM (xxx=725-750)

### Electrical Characteristics

| POWER CLASS <sup>(1)</sup> |      |      | 725                |       | 730                 |       | 735   |       | 740   |       | 745   |       | 750   |       |
|----------------------------|------|------|--------------------|-------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Testing Condition          |      |      | STC <sup>(2)</sup> |       | NMOT <sup>(3)</sup> |       | STC   |       | NMOT  |       | STC   |       | NMOT  |       |
| Maximum Power              | Pmax | [Wp] | 725                | 555   | 730                 | 559   | 735   | 563   | 740   | 566   | 745   | 570   | 750   | 574   |
| Maximum Power Voltage      | Vmp  | [V]  | 43.66              | 41.83 | 43.81               | 42.00 | 43.96 | 42.18 | 44.11 | 42.24 | 44.26 | 42.38 | 44.41 | 42.56 |
| Maximum Power Current      | Imp  | [A]  | 16.61              | 13.27 | 16.67               | 13.31 | 16.72 | 13.35 | 16.78 | 13.4  | 16.84 | 13.45 | 16.89 | 13.49 |
| Open Circuit Voltage       | Voc  | [V]  | 50.98              | 48.96 | 50.99               | 48.97 | 51.00 | 48.98 | 51.01 | 48.99 | 51.02 | 49.00 | 51.03 | 49.01 |
| Short Circuit Current      | Isc  | [A]  | 17.64              | 14.23 | 17.66               | 14.25 | 17.68 | 14.26 | 17.7  | 14.28 | 17.72 | 14.30 | 17.74 | 14.31 |
| Module Efficiency          | Eff  | [%]  | 23,3               |       | 23,5                |       | 23,7  |       | 23,8  |       | 24,0  |       | 24,1  |       |
| Maximum Series Fuse        | IR   | [A]  | 35                 |       |                     |       |       |       |       |       |       |       |       |       |
| Maximum System Voltage     | Vsys | [V]  | 1500 V             |       |                     |       |       |       |       |       |       |       |       |       |

(1) Measurement Tolerances: I<sub>sc</sub> & V<sub>oc</sub> (± 3%) - Power Classification 0/+5W

(2) STC (Standard Testing Condition): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM 1.5

(3) NMOT (Nominal Operating Module Temperature): Irradiance 800W/m<sup>2</sup>, NMOT, Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

### Bi Facial Output (4)

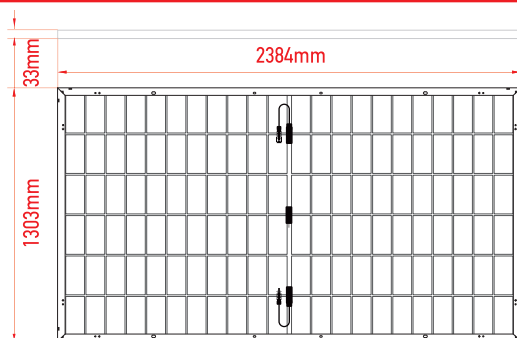
| POWER CLASS              |     |     | 725                   |         | 730              |       | 735              |       | 740              |       | 745              |       | 750              |       |
|--------------------------|-----|-----|-----------------------|---------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|
|                          |     |     | P <sub>max</sub> [Wp] | Eff [%] | P <sub>max</sub> | Eff   | P <sub>max</sub> | Eff   | P <sub>max</sub> | Eff   | P <sub>max</sub> | Eff   | P <sub>max</sub> | Eff   |
| Power with Backside Gain | +5  | [%] | 761,3                 | 24,5%   | 766,5            | 24,7% | 771,8            | 24,8% | 777,0            | 25,0% | 782,3            | 25,2% | 787,5            | 25,4% |
|                          | +10 | [%] | 797,5                 | 25,7%   | 803,0            | 25,9% | 808,5            | 26,0% | 814,0            | 26,2% | 819,5            | 26,4% | 825,0            | 26,6% |
|                          | +15 | [%] | 833,8                 | 26,8%   | 839,5            | 27,0% | 845,3            | 27,2% | 851,0            | 27,4% | 856,8            | 27,6% | 862,5            | 27,8% |
|                          | +20 | [%] | 870,0                 | 28,0%   | 876,0            | 28,2% | 882,0            | 28,4% | 888,0            | 28,6% | 894,0            | 28,8% | 900,0            | 29,0% |
|                          | +25 | [%] | 906,3                 | 29,2%   | 912,5            | 29,4% | 918,8            | 29,6% | 925,0            | 29,8% | 931,3            | 30,0% | 937,5            | 30,2% |
|                          | +30 | [%] | 942,5                 | 30,3%   | 949,0            | 30,6% | 955,5            | 30,8% | 962,0            | 31,0% | 968,5            | 31,2% | 975,0            | 31,4% |

(4) Bifaciality Factor > 90% - Back-side power gain depends upon the specific project albedo - Efficiency is according to the surface of the module

### Mechanical Data

|              |  |
|--------------|--|
| Dimensions   | 2384 mm x 1303 mm x 33 mm                        |
| Weight       | 39,0 Kg  |
| Cell Type    | HJT - 132 (2 x 66 Pcs) - G12                     |
| Front Glass  | 2.0 mm Tempered and low iron glass + Double ARC  |
| Rear Side    | 2.0 mm Tempered and low iron glass               |
| Frame        | Anodized Aluminium Alloy                         |
| Junction Box | IP68, 3 Bypass diodes                            |
| Connector    | MC4 compatible                                   |
| Output cable | 4mm <sup>2</sup> - Length = 1400mm or customized |

### Dimensions

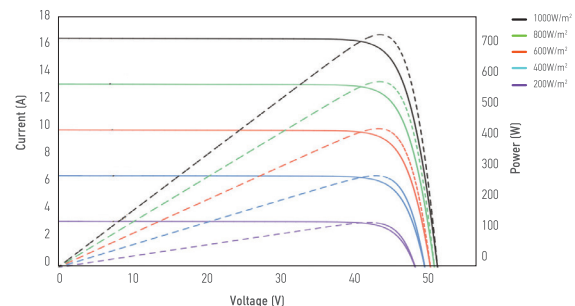


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### I-V Curve

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



### Temperature Characteristics

|   |              |
|---|--------------|
| P <sub>max</sub> Temperature Coefficient    | -0.24% / °C  |
| V <sub>oc</sub> Temperature Coefficient     | -0.22% / °C  |
| I <sub>sc</sub> Temperature Coefficient     | +0.047% / °C |
| Operating Temperature                       | -40~+85 °C   |
| Nominal Operating Module Temperature (NMOT) | 42 ± 2 °C    |

### Packing Configuration

|                       |                         |
|-----------------------|-------------------------|
| Container             | 40'HC                   |
| Pieces per Pallet     | 33                      |
| Pallets per Container | 18                      |
| Pieces per Container  | (33 + 33) x 9 = 594 pcs |

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