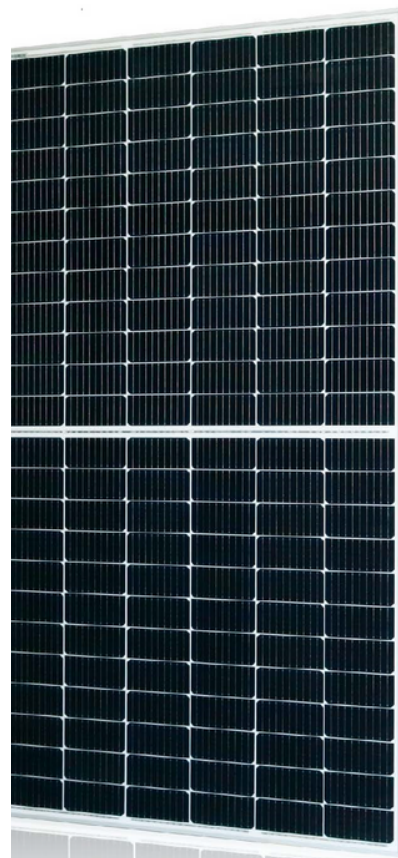


# LEXRON

FOR A LIVEABLE WORLD



**HALF CUT**

**144 CELL**

MONOCRYSTALLINE MODULE

**435-460W**

POWER OUTPUT RANGE

**21.1%**

MAXIMUM EFFICIENCY

**0~+5W**

BINNING TOLERANCE

**9BB**

MULTI BUSBAR

PERC CELL TECHNOLOGY



**HIGH POWER MODULE**

High module conversion efficiency (up to 20.6%), through superior manufacturing technology



**POSITIVE TOLERANCE**

Guaranteed 0- +5W positive power output tolerance ensures high reliability



**SELF CLEANING**

Anti-reflective, hydrophobic coating improves light absorption and reduces surface dust



**STRONG AIR RESISTANCE**

Entire module certified to withstand high wind loads (2400 Pascal) and snow loads (5400 Pascal)\*



**HIGH PERFORMANCE**

Excellent performance under low light environments (mornings, evenings and cloudy days)

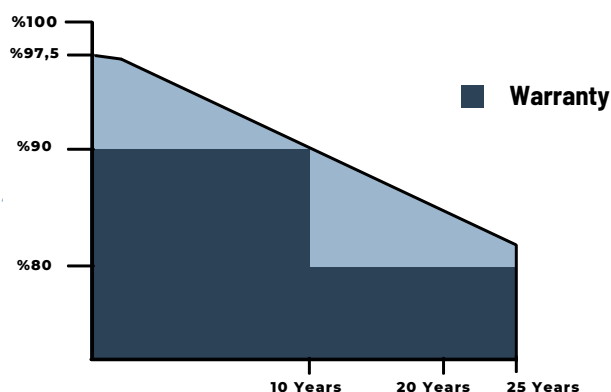
## SYSTEM CERTIFICATES

IEC61215/IEC61730/IEC61701/IEC62716  
ISO 9001: Quality Management System  
ISO 14001: Environmental Management  
ISO45001: Occupational Health and Safety

# LEXRON

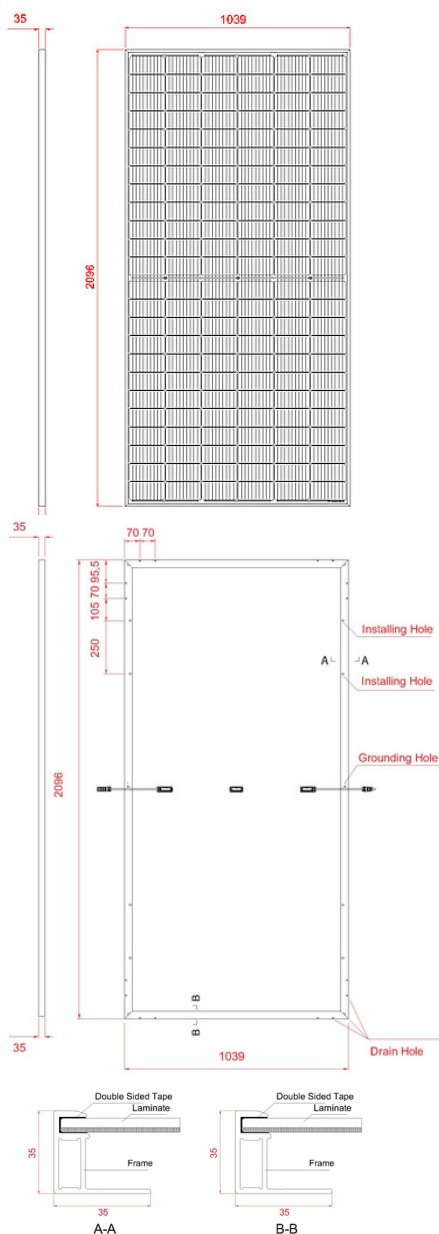
FOR A LIVEABLE WORLD

### Industry-leading warranty

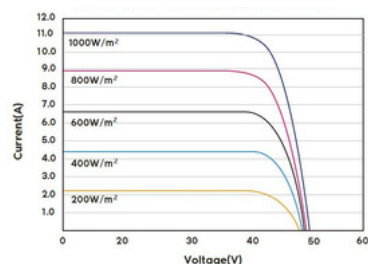


# 144 CELL HALFCUT MONOCRYSTAL DATASHEET

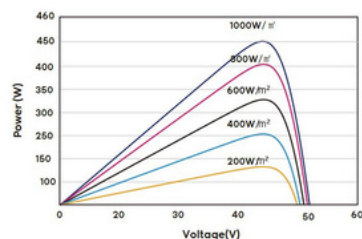
## DIMENSIONS OF PV MODULE(mm)



## I-V CURVES OF PV MODULE(450W)



## P-V CURVES OF PV MODULE(450W)



## ELECTRICAL DATA (STC)

|                            |                |        |        |        |        |        |
|----------------------------|----------------|--------|--------|--------|--------|--------|
| Nominal Maximum            | 435W           | 440W   | 445W   | 450W   | 455W   | 460W   |
| Open CIRCUIT Voltage (Voc) | 48,96V         | 49,32V | 49,68V | 50,04V | 50,40V | 50,76V |
| Max Power Voltage (Vmp)    | 40,8V          | 41,1V  | 41,4V  | 41,7V  | 42V    | 42,3V  |
| Short Circuit Current(Isc) | 11,25A         | 11,29A | 11,34A | 11,38A | 11,43A | 11,47A |
| Max Power Current (Imp)    | 10,66A         | 10,71A | 10,75A | 10,79A | 10,83A | 11,87A |
| Module Efficiency          | 19,97%         | 20,20% | 20,43% | 20,66% | 20,89% | 21,12% |
| Operating Temperature      | -40°C~+85°C    |        |        |        |        |        |
| Maximum System Voltage     | 1500V (IEC/UL) |        |        |        |        |        |
| Maximum Series Fuse Rating | 20A            |        |        |        |        |        |
| Application Classification | Class A        |        |        |        |        |        |
| Power Tolerance            | 0 ~ + 5W       |        |        |        |        |        |

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5.  
\*Measuring tolerance: ±3%.

## MECHANICAL DATA

|   |  |
|---|--|
| Cell Type                               | Mono-crystalline 166x83mm, 9BB                   |
| Cell Arrangement                        | 144 (6x24)                                       |
| Dimensions                              | 2096 x 1039 x 35 mm                              |
| Weight                                  | 24kg   |
| Front Cover                             | 3.2mm Tempered Glass                             |
| Frame Material                          | Anodized Aluminum Alloy                          |
| J-BOX                                   | IP67 / IP68                                      |
| Cable                                   | Photovoltaic Technology Cable 4.0mm <sup>2</sup> |
| Connectors                              | MC4 EVO2 or MC4 Comparable                       |
| Standard Packaging (Modules per Pallet) | 32pcs  |
| Module Pieces per container (40' / 20') | 760pcs / 320pcs                                  |

## TEMPERATURE CHARACTERISTICS

|   |            |
|---|------------|
| Nominal Operating Cell Temperature (NOCT) | 45±2°C     |
| Temperature Coefficient of Pmax           | -0.350%/°C |
| Temperature Coefficient of Voc            | -0.270%/°C |
| Temperature Coefficient of Isc            | 0.048%/°C  |

## WARRANTY

- 10 year Product Workmanship Warranty
- 25 year Power Warranty
- 2% first year degradation
- 0.45% Annual Power Attenuation

