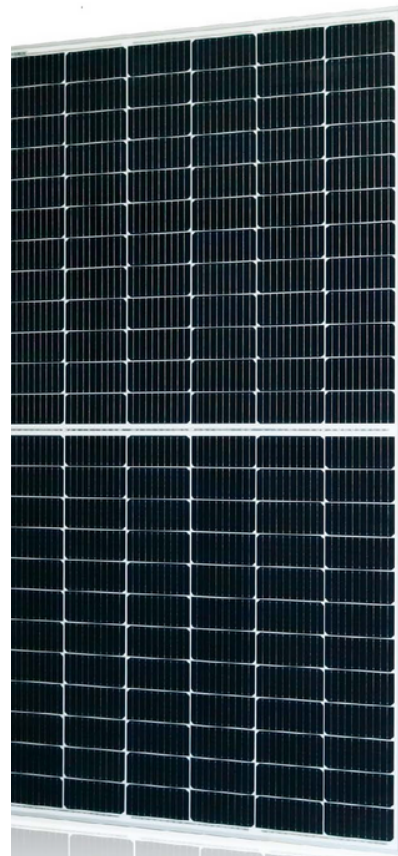


# LEXRON

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)

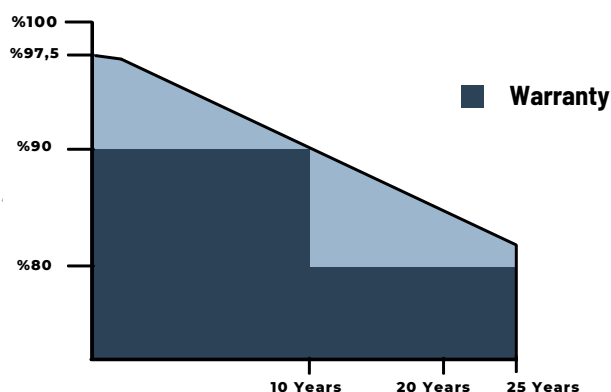
## SYSTEM CERTIFICATES

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

# LEXRON

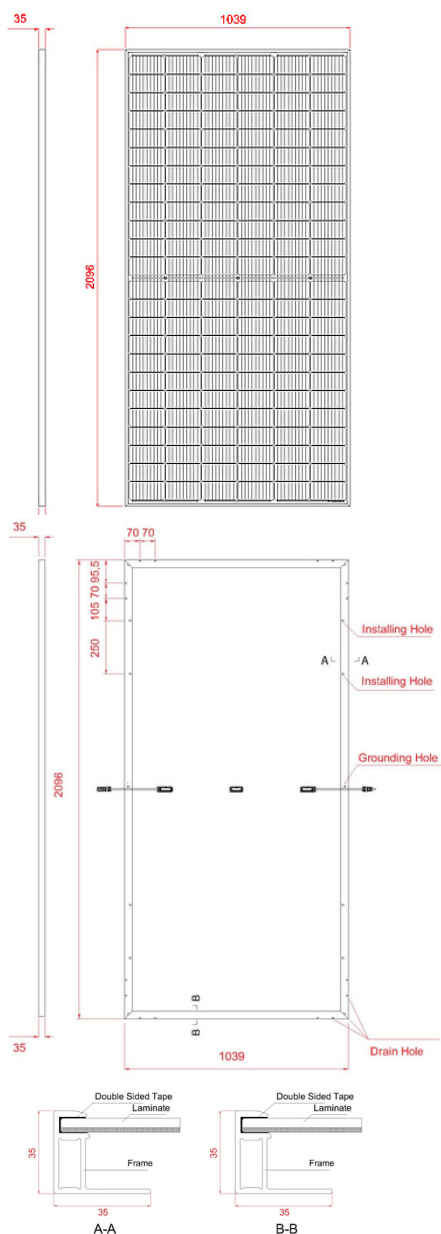
FOR A LIVEABLE WORLD

## Industry-leading warranty

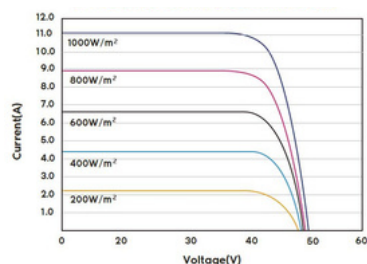


# 144 CELL HALFCUT MONOCRYSTAL DATASHEET

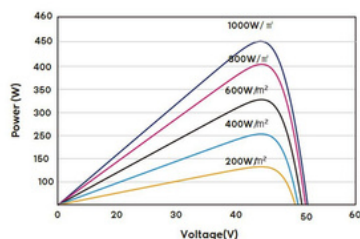
## DIMENSIONS OF PV MODULE(mm)



## 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	11,79A	11,83A	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

