

LEXRON

FOR A LIVEABLE WORLD

HALF CUT 144 CELL

N-TYPE MONOCRYSTALLINE MODULE

680–700W

POWER OUTPUT RANGE

23,42%

MAXIMUM EFFICIENCY

0~+5W

BINNING TOLERANCE

16BB

SUPER MULTI BUSBAR TECHNOLOGY

N-TYPE MODULES WITH TOPCON TECHNOLOGY

SYSTEM CERTIFICATES

IEC61215/IEC61730/IEC61701

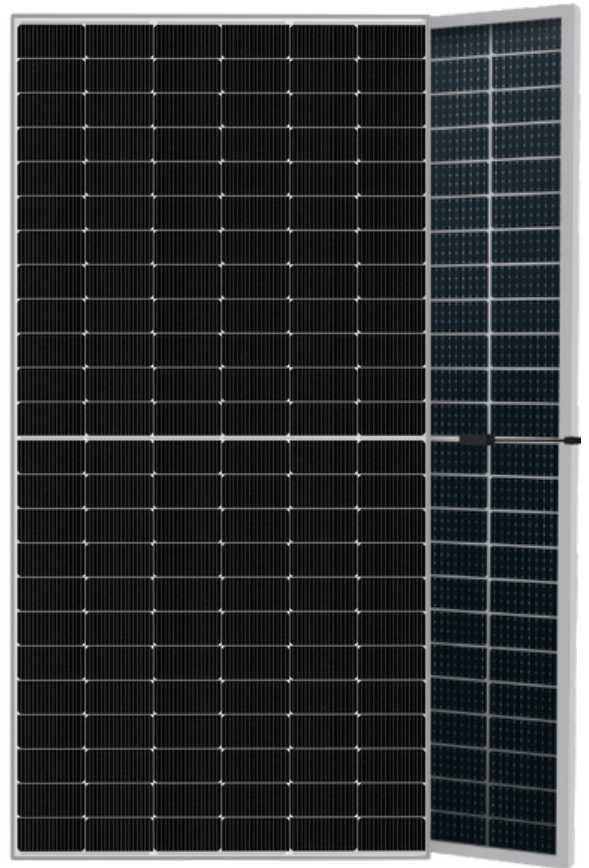
ISO 9001: Quality Management System

ISO 14001: Environmental Management

ISO 45001: Occupational Health and Safety

LEXRON

FOR A LIVEABLE WORLD



N-TYPE TECHNOLOGY

N-type modules with TOPcon technology offer lower LID/LeTID degradation and better low light performance



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

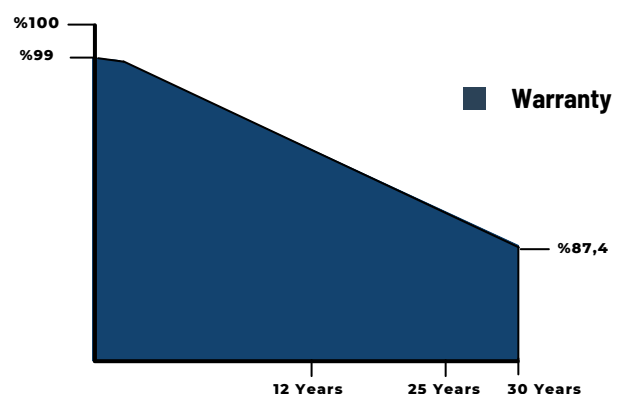
Entire module certified to withstand high wind loads (2400 Pascal) and snow loads (5400 Pascal)*



HIGH PERFORMANCE

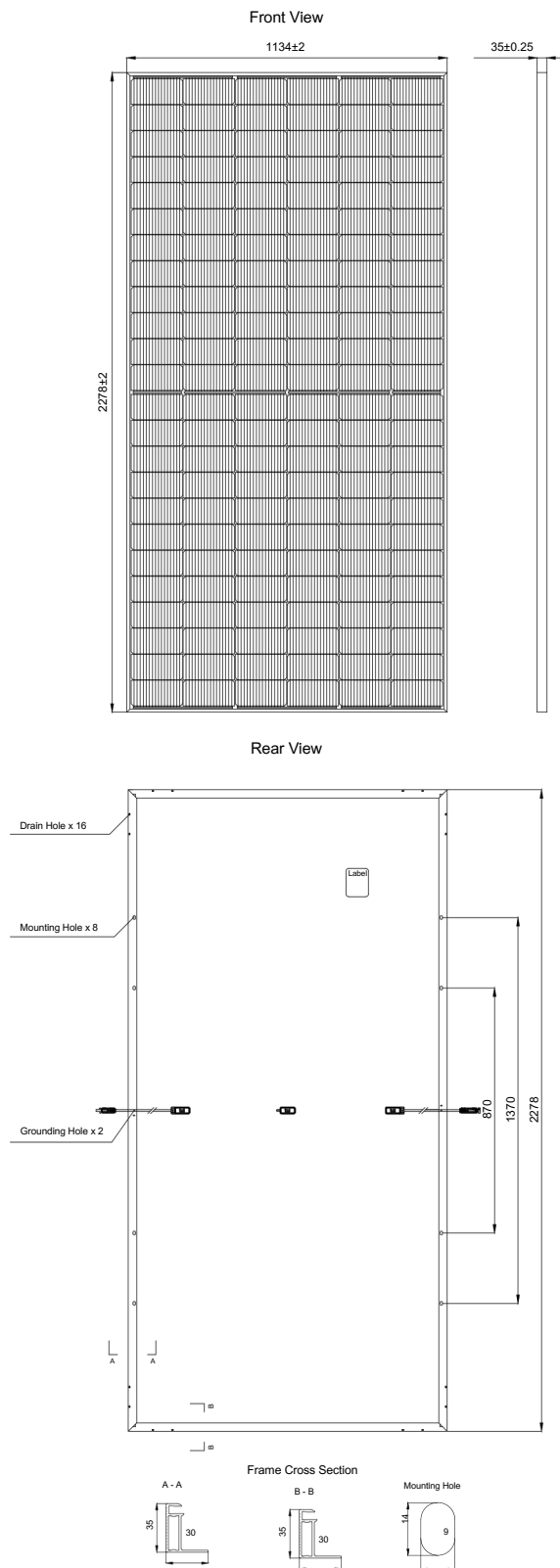
Excellent performance under low light environments (mornings, evenings and cloudy days)

Industry-leading warranty

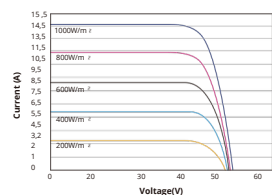


144 CELL BIFACIAL HALFCUT TOPCON DATASHEET

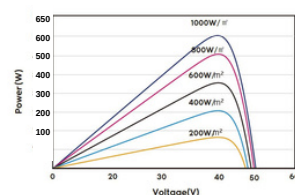
ENGINEERING DRAWING (mm)



I-V CURVES OF PV MODULE



P-V CURVES OF PV MODULE



ELECTRICAL DATA (STC)

Nominal Maximum	580W	585W	590W	595W	600W	605W
Open Circuit Voltage (Voc)	52,38V	52,52V	52,67V	52,82V	53,09V	53,13V
Max Power Voltage (Vmp)	43,52V	43,80V	43,96V	44,11V	44,29V	44,39V
Short Circuit Current (Isc)	13,95A	14,01A	14,08A	14,13A	14,17A	14,26A
Max Power Current (Imp)	13,33A	13,36A	13,43A	13,49A	13,55A	13,63A
Module Efficiency	22,45%	22,65%	22,84%	23,03%	23,23%	23,42%
Operating Temperature	-40°C~+85°C					
Maximum System Voltage	1500V (IEC)					
Maximum Series Fuse Rating	30A					
Application Classification	Class A					
Power Tolerance (%)	0 ~ + 5W					

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5
Measuring tolerance: ±3%

MECHANICAL DATA

Cell Type	N -type Monocrystalline
Cell Arrangement	144 cell
Dimensions	2278 x 1134 x 35 mm (±2mm)
Weight	28 kg
Front Cover	3.2mm, AR Coated Heat Strengthened Glass
Frame Material	35mm Anodized Aluminum Alloy
J-BOX	IP68
Cable	Photovoltaic Technology Cable 4.0mm²
Connectors	MC4 EVO2 or MC4 Compatible
Standard Packaging (Modules per Pallet)	33pcs
Module Pieces per container (40')	660pcs

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

Maximum Power (Pmax) (Wp) %10	638	643,50	649	654,50	660	665,50
Module Efficiency STC (%) %10	24,70%	24,91%	25,12%	25,34%	25,55%	25,76%
Maximum Power (Pmax) (Wp) %15	667	672,80	678,50	684,30	690	695,80
Module Efficiency STC (%) %15	25,82%	26,04%	26,27%	26,49%	26,71%	26,93%
Maximum Power (Pmax) (Wp) %20	696	702	708	714	720	726
Module Efficiency STC (%) %20	26,94%	27,18%	27,41%	27,64%	27,87%	28,10%

TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	0.045%/°C

WARRANTY

- 12 Year Product Workmanship Warranty
- 30 Year Power Warranty
- 2% First Year Degradation
- 0.45% Annual Power Attenuation

The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Lexron Brand reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.