

LEXRON

FOR A LIVEABLE WORLD

HALF CUT

144 CELL

MONOCRYSTALLINE MODULE

525–550W

POWER OUTPUT RANGE

21.28%

MAXIMUM EFFICIENCY

0~+5W

BINNING TOLERANCE

10BB

MULTI BUSBAR

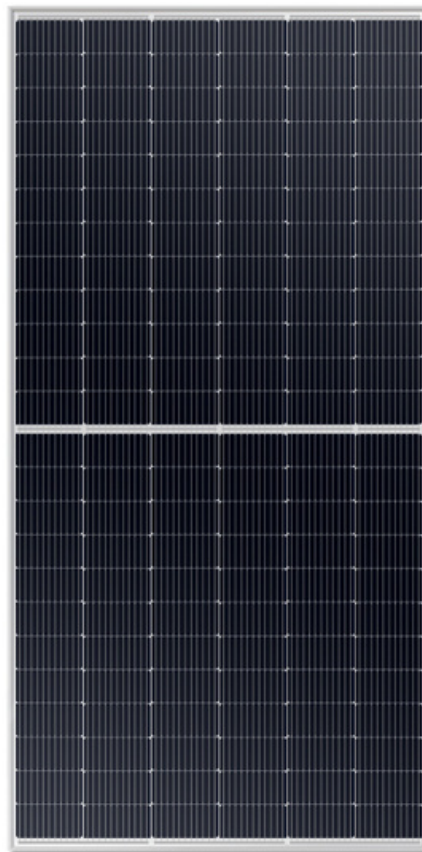
PERC CELL TECHNOLOGY

SYSTEM CERTIFICATES

IEC61215/IEC61730/IEC61701/IEC62716
ISO 9001: Quality Management System
ISO 14001: Environmental Management
ISO 45001: Occupational Health and Safety

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HIGH POWER MODULE

High module conversion efficiency (up to 21.2%), 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

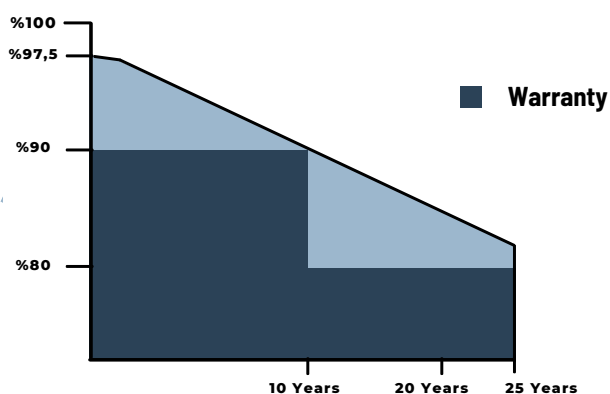
Entire module certified to withstand high wind loads (2400 Pascal) and snow loads (5400 Pascal)*



HIGH PERFORMANCE

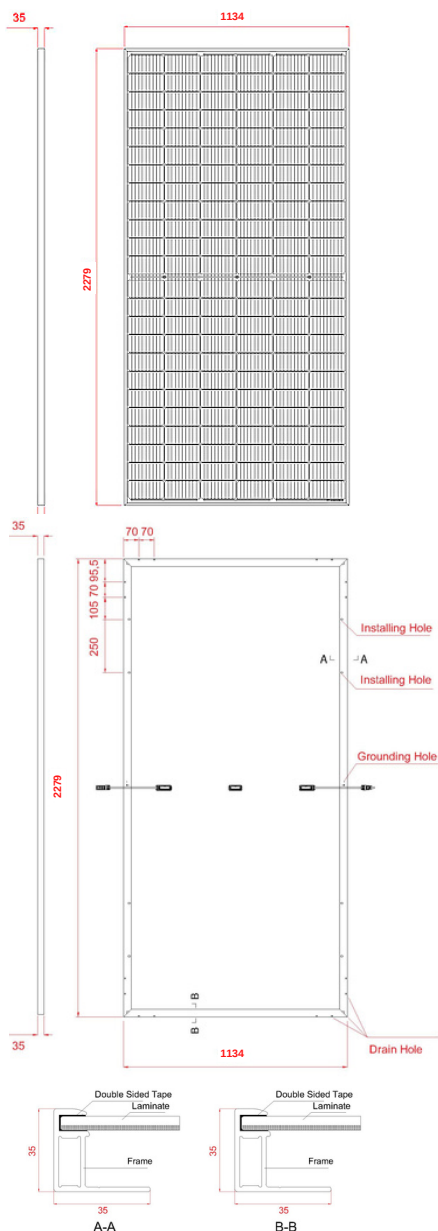
Excellent performance under low light environments (mornings, evenings and cloudy days)

Industry-leading warranty

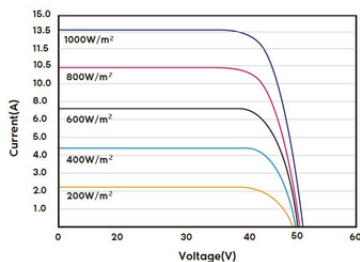


144 CELL HALFCUT MONOCRYSTAL DATASHEET

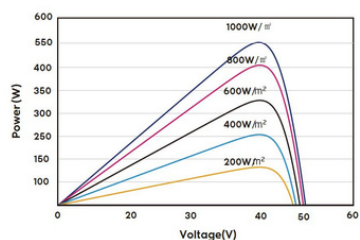
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(540W)



P-V CURVES OF PV MODULE(540W)



ELECTRICAL DATA (STC)

Nominal Maximum	525W	530W	535W	540W	545W	550W
Open CIRCUIT Voltage (Voc)	49,56V	49,68V	49,8V	49,98V	50,16V	50,35V
Max Power Voltage (Vmp)	41,3V	41,4V	41,5V	41,65V	41,8V	41,96V
Short Circuit Current(Isc)	13,41A	13,5A	13,6A	13,68A	13,75A	13,83A
Max Power Current (Imp)	12,72A	12,80A	12,89A	12,97A	13,04A	13,11A
Module Efficiency	20,31%	20,51%	20,7%	20,89%	21,09%	21,28%
Operating Temperature	-40°C~+85°C					
Maximum System Voltage	1500V (IEC/UL)					
Maximum Series Fuse Rating	25A					
Application Classification	Class A					
Power Tolerance	0 ~ + 5W					

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.
*Measuring tolerance: ±3%.

MECHANICAL DATA

Cell Type	Mono-crystalline 182x91mm, 11BB
Cell Arrangement	144 (6x24)
Dimensions	2279 x 1134 x 35 mm
Weight	28kg
Front Cover	3.2mm Tempered Glass
Frame Material	Anodized Aluminum Alloy
J-BOX	IP67 / IP68
Cable	Photovoltaic Technology Cable 4.0mm ²
Connectors	MC4 EVO2 or MC4 Comparable
Standard Packaging (Modules per Pallet)	32pcs
Module Pieces per container (40' / 20')	704pcs / 320pcs

TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45±3°C
Temperature Coefficient of Pmax	-0.350%/°C
Temperature Coefficient of Voc	-0.280%/°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

