

144 CELL HALFCUT TOPCON DATASHEET

LEXRON

FOR A LIVEABLE WORLD

HALF CUT

144 CELL

N-TYPE MONOCRYSTALLINE MODULE

575-600W

POWER OUTPUT RANGE

23.23%

MAXIMUM EFFICIENCY

0~+5W

BINNING TOLERANCE

10BB

MULTI BUSBAR

N-TYPE TOPCON 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 23.23%), 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

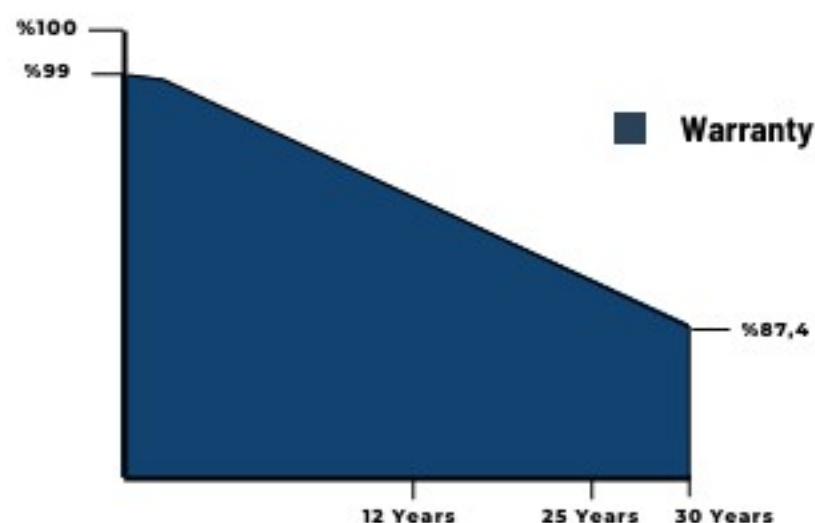
Entire module certified to withstand high wind loads (2400 Pascal) and snow loads (5400 Pascal)*



HIGH PERFORMANCE

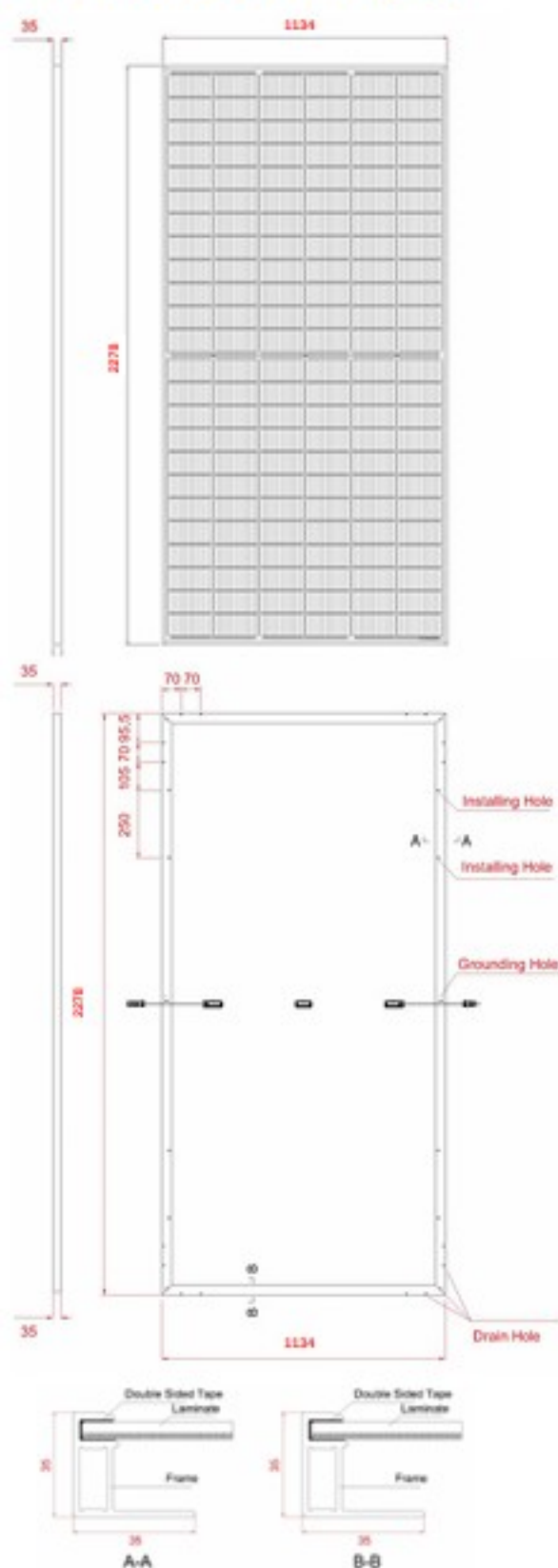
Excellent performance under low light environments (mornings, evenings and cloudy days)

Industry-leading warranty

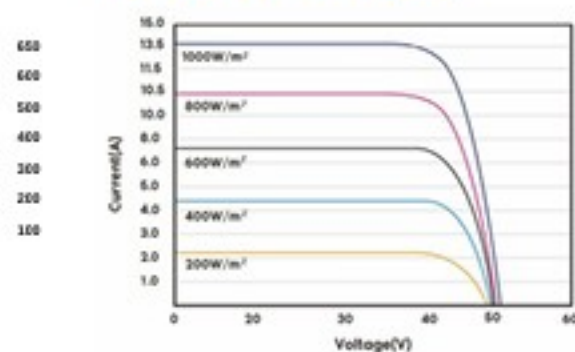


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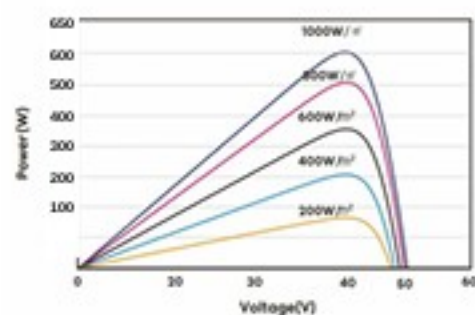
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(540W)



P-V CURVES OF PV MODULE(540W)



ELECTRICAL DATA (STC)

Nominal Maximum	575W	580W	585W	590W	595W	600W
Open CIRCUIT Voltage (Voc)	51,12V	51,30V	51,48V	51,72V	51,90V	52,08V
Max Power Voltage (Vmp)	42,60V	42,75V	42,90V	43,10V	43,25V	43,40V
Short Circuit Current(Isc)	14,24A	14,31A	14,38A	14,44A	14,51A	14,58A
Max Power Current (Imp)	13,50A	13,57A	13,64A	13,69A	13,76A	13,82A
Module Efficiency	22,26%	22,45%	22,65%	22,84%	23,03%	23,23%
Operating Temperature	-40°C~+85°C					
Maximum System Voltage	1500V (IEC/UL)					
Maximum Series Fuse Rating	25A					
Application Classification	Class A					
Power Tolerance (%)	±3					

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

MECHANICAL DATA

Cell Type	Mono-crystalline
Cell Arrangement	144 cell
Dimensions	2278 x 1134 x 35 mm
Weight	28kg
Front Cover	3.2mm, AR Coated Heat Strengthened Glass
Frame Material	35mm Anodized Aluminum Alloy
J-BOX	IP68 rated
Cable	Photovoltaic Technology Cable 4.0mm ²
Connectors	MC4 EVO2 or MC4 Comparable
Standard Packaging (Modules per Pallet)	33pcs
Module Pieces per container (40' / 20')	704pcs / 320pcs

TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.350%/°C
Temperature Coefficient of Voc	-0.280%/°C
Temperature Coefficient of Isc	0.048%/°C

WARRANTY

- 12 year Product Workmanship Warranty
- 30 year Power Warranty
- 1% first year degradation
- 0.40% Annual Power Attenuation

