

LEXRON-144M

440/445/450/455 MHC

LEXRON

Renewable Energy Systems

All-Purpose Module

LEXRON-144 is a robust solar module with 144 solar cells. These modules are mainly used for on-grid solar applications. Our meticulous design and production techniques ensure high-yield, long-term performance for every module produced. Our rigorous quality control and in-house testing facilities guarantee LEXRON modules meet the highest quality standards possible.

Monocrystalline Silicon Solar Modules

Features



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



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



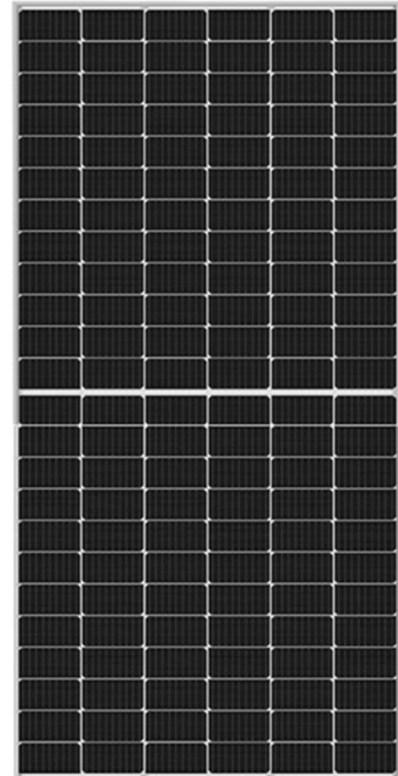
Anti-reflective, hydrophobic coating improves light absorption and reduces surface dust



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



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



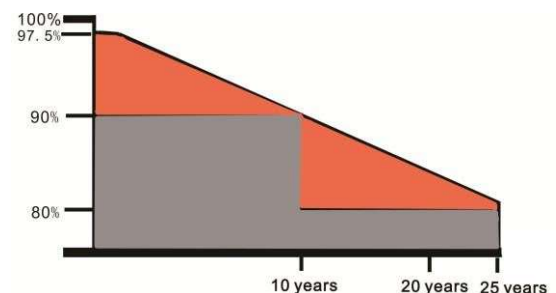
All-purpose Module

Sales network covers more than 20 countries, providing customers with instant after sales service and an efficient supply-chain, our clients can be found throughout the world, such as Europe, Oceania, Eastern Europe, East Asia, Middle East and Africa. LEXRON team works closely with our customers to provide them with solutions for all their solar needs.



LEXRON reputation is founded on more than 200MW of high performance solar modules installed all around the world.

Industry-leading warranty



- 25 year transferable power output warranty: 10year/90%; 25year/80%.
- Based on nominal power.
- 10 year material and workmanship warranty.

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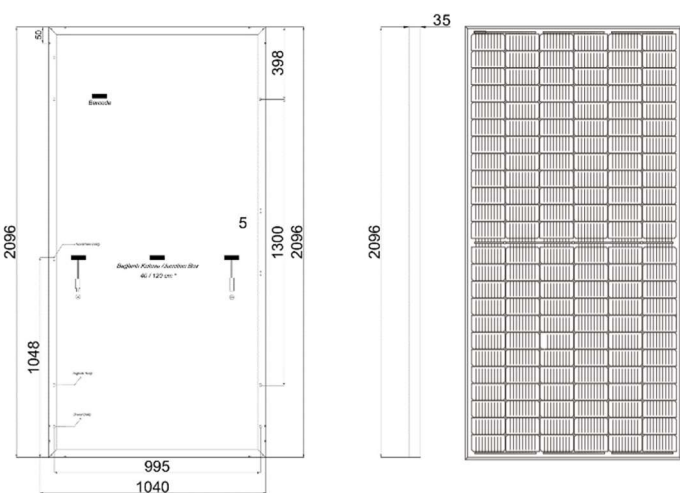
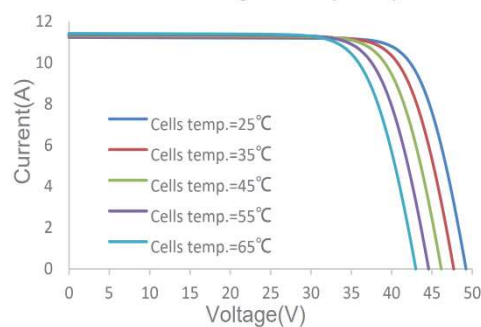
Electrical Data

STC	LXR-440-144MHC	LXR-445-144MHC	LXR-450-144MHC	LXR-455-144MHC
Nominal Maximum	440W	445W	450W	455W
Open CIRCUIT Voltage (Voc)	49.2V	49.4V	49.6V	49.6V
Max Power Voltage (Vmp)	40.7V	40.8V	41V	41V
Short Circuit Current(Isc)	11.39A	11.46A	11.53A	11.58A
Max Power Current (Imp)	10.82A	10.90A	10.98A	11.10A
Module Efficiency	20.1%	20.4%	20.6%	20.6%
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			

Under Standard Test Conditions (STC) irradiance of 1000W/m², spectrum AM 1.5 and cell temperature of 25°C

IV-Curves

Current-Voltage curves(445W)



Mechanical Data

Cell Type	Mono-crystalline 166x83mm, 9BB
Cell Arrangement	144 (6x24)
Dimensions	2096 x 1040 x 35 mm
Weight	24,2g
Front Cover	3.2mm Tempered Glass
Frame Material	Anodized Aluminum Alloy
J-BOX	IP67 / IP68
Cable	4mm2(IEC)/12AWG(UL), 300mm/1200mm
Connectors	MC4 or MC4 Comparable
Standard Packaging (Modules per Pallet)	26pcs
Module Pieces per container (40HQ)	594pcs (40' HQ)

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

Packing Configuration

Container	20'GP	40' HQ
Pieces	270	594

LEXRON® is registered trademark of ACS Enerji ve Teknoloji LTD STI

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