Lynx Series

EUROPEAN MANUFACTURER

Overview

N-type solar cells (TOPCon) are seen as the technology of the future. N-type (TopCon) technology guarantees high performance and low degradation of the PV module, substantially improving the results and the yield in the time. "Lynx" Series module is the ideal solution for end users who want a Quality PV & reliable product over time and a fast turnaround on their investments.

Key Benefits

LID — Zero light induced Degradation

30 Years Limited Product Warranty

Higher yield per surface area

Pmax — Low Pmax Temperature Coefficient

LCOE — Low LCOE

Higher Light Conversion
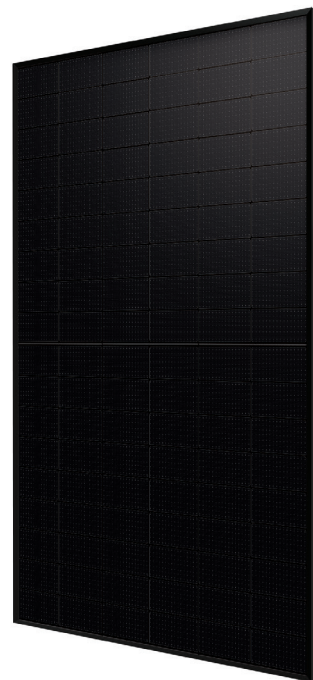
Guaranteed mechanical resistance to severe weather conditions

Wp — Positive Tolerance

EL — 100 % electro-luminescence tested

Tests, Certifications and Warranties

Standard Tests	IEC 61215, IEC 61730
Factory Quality Tests	ISO 9001: 2015, ISO 14001: 2015
Certifications	Conformity to CE, PV CYCLE Fire safety Class C according to UL790
Wind and Snow Static Loads	Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)
Withstanding Hail	Maximum Diameter of 25 mm with impact speed of 23 m/s
Power Tolerance	Guaranteed +0/+5W (STC condition)
Warranties	• 30-year limited product warranty • 15-year manufacturer warranty on 92,70% of the nominal performance • 30-year transferable linear power output warranty

Linear Performance Warranty

Legend: RECOM / Industry Standard

Additional value from RECOM's linear warranty

Guaranteed Power — 100%, 99.0%, 92.70%, 90%, 85.95%, 80%

Years — 0, 5, 10, 15, 20, 25, 30

First Year Output	2-30 Year Decline	30 Year Output
≥ 99.0%	≤ 0.45%	≥ 85.95%

Lynx
N-TYPE MONO CRYSTALLINE HALF CUT MODULE - SINGLE GLASS
RCM-xxx-RNG (xxx=485-505)

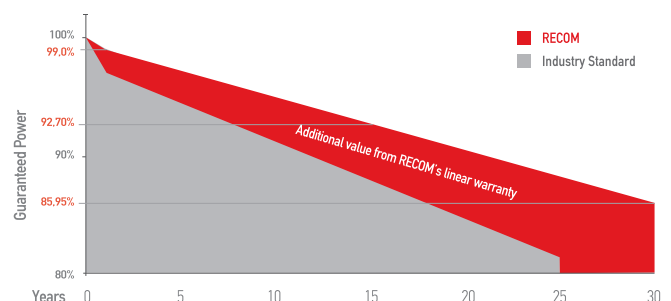## Electrical Characteristics

POWER CLASS [1]			485		490		495		500		505	
Testing Condition			STC [2]	NMOT [3]	STC [2]	NMOT [3]	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power	Pmax	[Wp]	485	367	490	370	495	374	500	378	505	382
Maximum Power Voltage	Vmp	[V]	32,38	30,60	32,60	30,81	32,82	31,01	33,05	31,23	33,27	31,44
Maximum Power Current	Imp	[A]	14,98	11,98	15,03	12,02	15,08	12,06	15,13	12,10	15,18	12,14
Open Circuit Voltage	Voc	[V]	39,01	37,06	39,26	37,29	39,51	37,53	39,77	37,78	40,02	38,02
Short Circuit Current	Isc	[A]	15,74	12,59	15,80	12,64	15,86	12,69	15,91	12,73	15,97	12,78
Module Efficiency	Eff	[%]	21,8		22,0		22,3		22,5		22,7	
Maximum Series Fuse	I_R	[A]	30									
Maximum System Voltage	V_{SYS}	[V]	1500V DC (IEC)									

(1) Measurement Tolerances: Isc & Voc (± 3%) – Power Classification 0/+5W
(2) STC (Standard Testing Condition): Irradiance 1000W/m², Cell Temperature 25°C, AM 1.5
(3) NMOT (Nominal Operating Module Temperature): Irradiance 800W/m², NMOT, Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

Mechanical Data

Dimensions	1961 mm x 1134 mm x 30 mm
Weight	23,9 Kg
Cell Type	N-type - 108 (54 x 2 Pcs) - G12R
Front Glass	3.2 mm Tempered and low iron glass + ARC
Rear Side	Anti-aging film (Black)
Frame	Anodized Aluminium Alloy (Black)
Junction Box	IP68, 3 Bypass diodes
Connector	MC4 compatible
Output cable	4mm² - Length: 1200 mm (or customized)

I-V Curve

The module relative power loss at low light irradiance of 200W/m² is less than 3%.
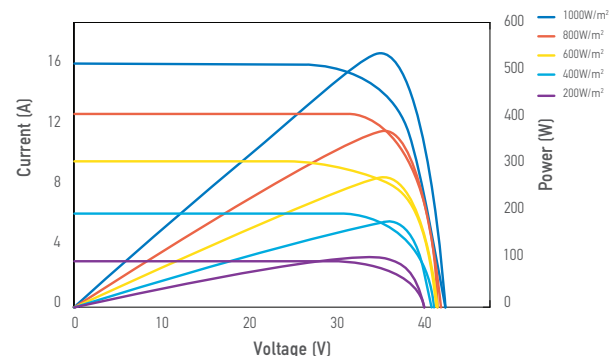
Dimensions
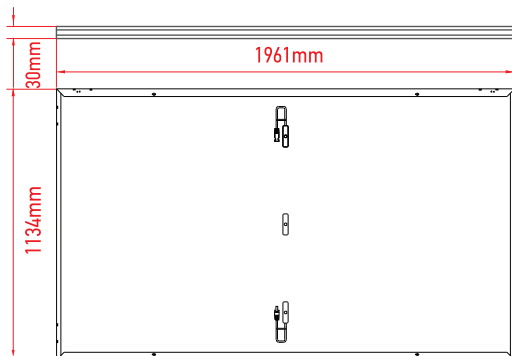
Temperature Characteristics

Pmax Temperature Coefficient	-0.30% / °C
Voc Temperature Coefficient	-0.25% / °C
Isc Temperature Coefficient	+0.04% / °C
Operating Temperature	-40~+85 °C
Nominal Operating Module Temperature (NMOT)	42 ± 2 °C

Packing Configuration

Container	40'HC
Pieces per Pallet	37
Pallets per Container	24
Pieces per Container	(37+37)x12=888 pcs