RECOM TECHNOLOGIES

BIFACIAL N-TYPE MONO CRYSTALLINE HALF CUT MODULE – DOUBLE GLASS

610 / 615 / 620 / 625 / 630 / 635 / 640 Watts

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.



Guaranteed mechanical resistance to severe weather conditions

Wp

Positive Tolerance

EL

100 % electro-luminescence tested

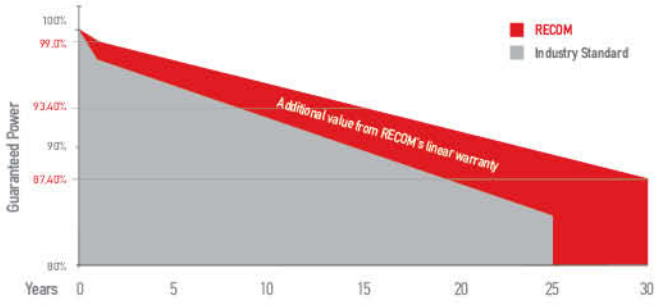
Key Benefits

- Anti-Glare Glass
- 30 Years Limited Product Warranty
- LID — Zero light induced Degradation
- Pmax — Low Pmax Temperature Coefficient
- Higher yield per surface area
- Higher Light Conversion

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 93,40% of the nominal performance • 30-year transferable linear power output warranty

Linear Performance Warranty



First Year Output	≥ 99.0%	2-30 Year Decline	≤ 0.40%	30 Year Output	≥ 87.40%

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Lynx

BIFACIAL N-TYPE MONO CRYSTALLINE HALF CUT MODULE – DOUBLE GLASS

RCM-xxx-RDBNM (xxx=610-640)

Electrical Characteristics

POWER CLASS [1]			610		615		620		625		630		635		640	
Testing Condition			STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power	Pmax	[Wp]	610	462,40	615	466,10	620	471,30	625	475,20	630	478,90	635	482,70	640	486,50
Maximum Power Voltage	Vmp	[V]	40,60	37,80	40,80	38,00	41,00	38,04	41,20	38,50	41,40	38,70	41,60	38,90	41,80	39,10
Maximum Power Current	Imp	[A]	15,03	12,22	15,08	12,26	15,13	12,29	15,17	12,33	15,22	12,37	15,27	12,41	15,32	12,45
Open Circuit Voltage	Voc	[V]	48,50	45,80	48,70	46,00	48,90	46,30	49,10	46,50	49,30	46,70	49,50	46,90	49,70	47,10
Short Circuit Current	Isc	[A]	15,95	12,87	16,00	12,91	16,05	12,95	16,09	12,98	16,14	13,02	16,19	13,06	16,24	13,10
Module Efficiency	Eff	[%]	22,58		22,77		22,95		23,14		23,32		23,51		23,69	
Maximum Series Fuse	IR	[A]	30													
Maximum System Voltage	VSYS	[V]	1500V DC (IEC)													

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

Bi Facial Output (4)

POWER CLASS			610		615		620		625		630		635		640	
			Pmax [Wp]	Eff [%]	Pmax [Wp]	Eff [%]	Pmax [Wp]	Eff [%]	Pmax [Wp]	Eff [%]	Pmax [Wp]	Eff [%]	Pmax [Wp]	Eff [%]	Pmax [Wp]	Eff [%]
Power with Backside Gain	+5	[%]	640,5	23,7%	645,8	23,9%	651,0	24,1%	656,3	24,3%	661,5	24,5%	666,8	24,7%	672,0	24,9%
	+10	[%]	671,0	24,8%	676,5	25,0%	682,0	25,2%	687,5	25,5%	693,0	25,7%	698,5	25,9%	704,0	26,1%
	+15	[%]	701,5	26,0%	707,3	26,2%	713,0	26,4%	718,8	26,6%	724,5	26,8%	730,3	27,0%	736,0	27,2%
	+20	[%]	732,0	27,1%	738,0	27,3%	744,0	27,5%	750,0	27,8%	756,0	28,0%	762,0	28,2%	768,0	28,4%
	+25	[%]	762,5	28,2%	768,8	28,5%	775,0	28,7%	781,3	28,9%	787,5	29,2%	793,8	29,4%	800,0	29,6%
	+30	[%]	793,0	29,4%	799,5	29,6%	806,0	29,8%	812,5	30,1%	819,0	30,3%	825,5	30,6%	832,0	30,8%

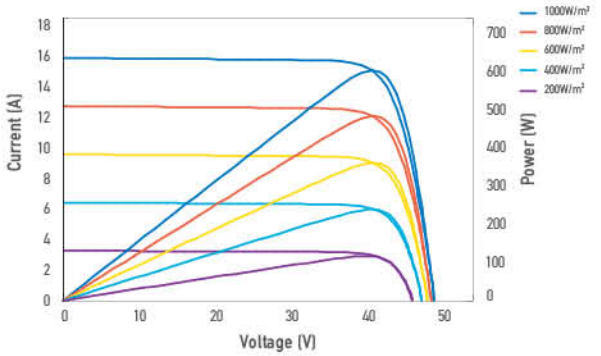
(4) Bifaciality Factor > 80% - Back-side power gain depends upon the specific project albedo - Efficiency is according to the surface of the module

Mechanical Data

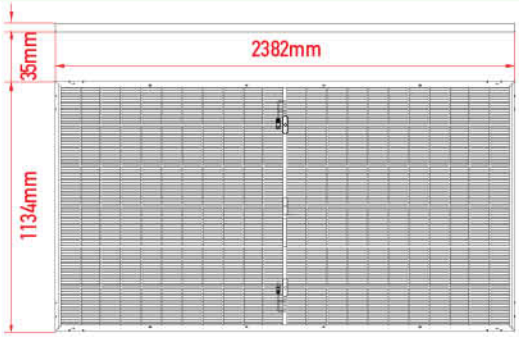
Dimensions	2382 mm x 1134 mm x 35 mm
Weight	33,5 Kg
Cell Type	N-type - 132 (2 x 66 Pcs) - G12R
Front Glass	2.0 mm Tempered and low iron glass + ARC
Rear Side	2.0 mm Tempered and low iron glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass diodes
Connector	MC4-EVO2 compatible
Output cable	4mm² - Length: = 1400 mm or customized

I-V Curve

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



Dimensions



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Temperature Characteristics

Pmax Temperature Coefficient	-0.28% / °C
Voc Temperature Coefficient	-0.23% / °C
Isc Temperature Coefficient	+0.045% / °C
Operating Temperature	-40~+85 °C
Nominal Operating Module Temperature (NMOT)	44 ± 2 °C

Packing Configuration

Container	40'HC
Pieces per Pallet	31
Pallets per Container	20
Pieces per Container	(31+31) x 10 = 620 pcs

The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to on-going innovation, research and product enhancement, RECOM Technologies 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. Please read the safety and installation instructions before using the modules.

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**Release RCM-xxx-RDBNM(xxx=610-640)-16-6120-35-S6-15V-051-2025-04-v1.0