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

590 / 595 / 600 / 605 / 610 / 615 / 620 / 625 / 630 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

Positive Tolerance

100 % electro-luminescence tested

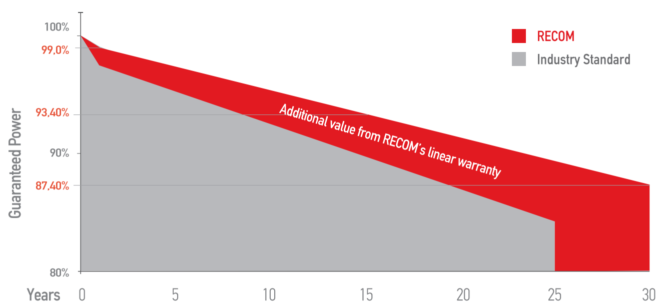
Key Benefits

- Zero light induced Degradation
- 30 Years Limited Product Warranty
- Higher yield per surface area
- Low Pmax Temperature Coefficient
- Low LCOE
- 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
Insurance	Third party liability insurance provided by Liberty Mutual
Wind and Snow Loads Testing	Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)
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%

Lynx

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

RCM-xxx-7DBNN (xxx=590-630)

Electrical Characteristics

POWER CLASS (1)			590		595		600		605		610		615		620		625		630	
Testing Condition			STC (2)	NMOT(3)	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power	Pmax	[Wp]	590	443,9	595	447,6	600	451,3	605	455,1	610	458,8	615	462,6	620	466,3	625	470,1	630	473,9
Maximum Power Voltage	Vmp	[V]	45,19	41,95	45,29	42,05	45,39	42,14	45,49	42,23	45,59	42,32	45,69	42,42	45,79	42,51	45,89	42,60	45,99	42,70
Maximum Power Current	Imp	[A]	13,06	10,58	13,14	10,65	13,22	10,71	13,30	10,78	13,38	10,84	13,46	10,91	13,54	10,97	13,62	11,03	13,70	11,10
Open Circuit Voltage	Voc	[V]	54,65	51,93	54,80	52,08	54,95	52,22	55,10	52,36	55,25	52,50	55,40	52,65	55,55	52,79	55,70	52,93	55,85	53,08
Short Circuit Current	Isc	[A]	13,82	11,16	13,90	11,23	13,97	11,28	14,04	11,34	14,11	11,40	14,18	11,45	14,25	11,51	14,32	11,57	14,39	11,62
Module Efficiency	Eff	[%]	21,11		21,29		21,46		21,64		21,82		22,00		22,18		22,18		22,18	
Maximum Series Fuse	IR	[A]	30																	
Maximum System Voltage	VSYS	[V]	1500V DC																	

(1) Measurement Tolerances: Pmax (± 3%), 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			590		595		600		605		610		615		620		625		630	
			Pmax[Wp]	Eff [%]	Pmax	Eff	Pmax	Eff	Pmax	Eff	Pmax	Eff	Pmax	Eff	Pmax	Eff	Pmax	Eff	Pmax	Eff
Power with Backside Gain	+5	[%]	619,5	22,2%	624,8	22,3%	630,0	22,5%	635,3	22,7%	640,5	22,9%	645,8	23,1%	651,0	23,3%	656,3	23,5%	661,5	23,7%
	+10	[%]	649,0	23,2%	654,5	23,4%	660,0	23,6%	665,5	23,8%	671,0	24,0%	676,5	24,2%	682,0	24,4%	687,5	24,6%	693,0	24,8%
	+15	[%]	678,5	24,3%	684,3	24,5%	690,0	24,7%	695,8	24,9%	701,5	25,1%	707,3	25,3%	713,0	25,5%	718,8	25,7%	724,5	25,9%
	+20	[%]	708,0	25,3%	714,0	25,5%	720,0	25,8%	726,0	26,0%	732,0	26,2%	738,0	26,4%	744,0	26,6%	750,0	26,8%	756,0	27,0%
	+25	[%]	737,5	26,4%	743,8	26,6%	750,0	26,8%	756,3	27,1%	762,5	27,3%	768,8	27,5%	775,0	27,7%	781,3	27,9%	787,5	28,2%
	+30	[%]	767,0	27,4%	773,5	27,7%	780,0	27,9%	786,5	28,1%	793,0	28,4%	799,5	28,6%	806,0	28,8%	812,5	29,1%	819,0	29,3%

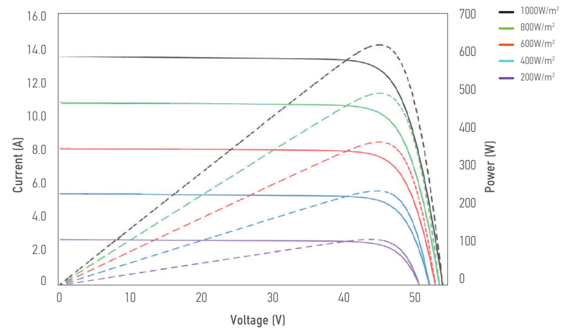
(4) Bifaciality Factor > 80% - Back-side power gain depends upon the specific project albedo - Efficiency is according to the surface of the module

Mechanical Data

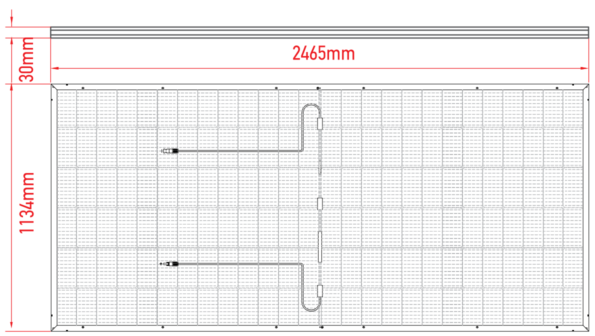
Dimensions	2465 mm x 1134 mm x 30 mm
Weight	34,7 Kg
Cell Type	N-Type - 182mm x 91mm (2 x 78 Pcs) - M10
Front Glass	2.0 mm Tempered and low iron glass + ARC
Rear Side	2.0 mm Tempered and low iron glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass diodes
Connector	MC4 compatible
Output cable	4mm² - Length: = 350mm 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	-0.290% / °C
Voc Temperature Coefficient	-0.250% / °C
Isc Temperature Coefficient	+0.045% / °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	16
Pieces per Container	(37+37)x8=592 pcs

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**Release RCM-xxx-7DBNN(xxx=590-630)-16-M10-30-SG-15V-017-2023-07-v2.0

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