

N-TYPE MONO CRYSTALLINE HALF CUT MODULE

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

Lynx Series



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

Zero light induced Degradation	30 Years Limited Product Warranty
Higher yield per surface area	Low Pmax Temperature Coefficient
Low LCOE	Higher Light Conversion



Guaranteed mechanical resistance to severe weather conditions



Positive Tolerance

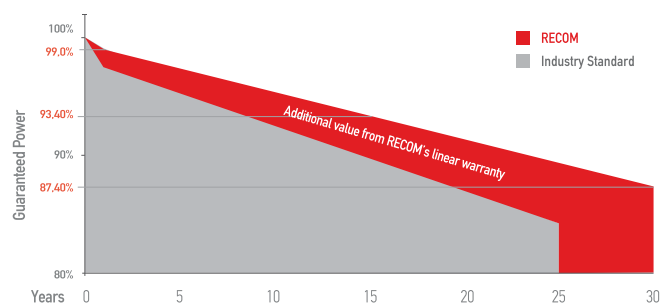


100 % electro-luminescence tested

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
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)
Withstanding Hail	Maximum Diameter of 25 mm with impact speed of 23 m/s
Power Tolerance	Guaranteed +0/+5W (STC condition)
Warranties	<ul style="list-style-type: none"> • 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 $\geq 99.0\%$ 2-30 Year Decline $\leq 0.40\%$ 30 Year Output $\geq 87.40\%$

Lynx

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

Electrical Characteristics

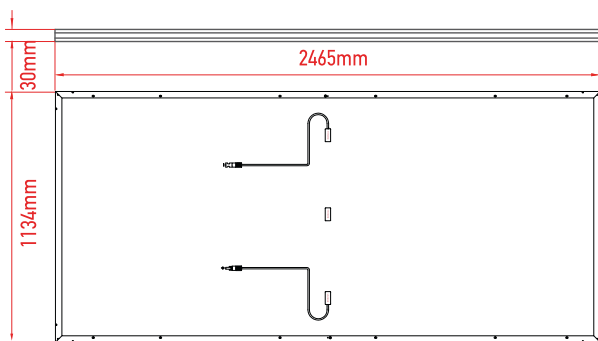
POWER CLASS ⁽¹⁾			590		595		600		605		610		615		620		625		630			
Testing Condition			STC ⁽²⁾		NMOT ⁽³⁾		STC		NMOT		STC		NMOT		STC		NMOT		STC		NMOT	
Maximum Power	P _{max}	[Wp]	590	443,9	595	447,6	600	451,3	605	455,1	610	458,8	615	462,6	620	466,3	625	470,1	630	473,9		
Maximum Power Voltage	V _{mp}	[V]	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	I _{mp}	[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	V _{oc}	[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	I _{sc}	[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]	25																			
Maximum System Voltage	V _{SYS}	[V]	1500V DC																			

(1) Measurement Tolerances: P_{max} (± 3%), I_{sc} & V_{oc} (± 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	2465 mm x 1134 mm x 30 mm
Weight	30,7 Kg
Cell Type	N-Type - 182mm x 91mm (2 x 78 Pcs) - M10
Front Glass	3.2 mm Tempered and low iron glass + Anti Reflective Coating
Rear Side	Anti-aging film
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass diodes
Connector	EVO2 compatible
Output cable	4mm ² - Length: 350 mm (or customized)

Dimensions

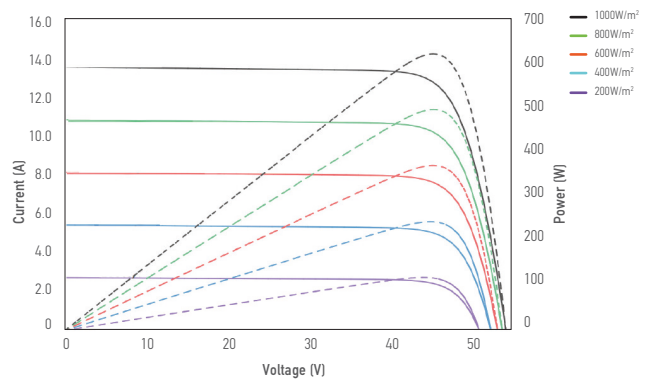


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I-V Curve

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



Temperature Characteristics

P _{max} Temperature Coefficient	-0.290% / °C
V _{oc} Temperature Coefficient	-0.250% / °C
I _{sc} 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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