

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

605 / 610 / 615 / 620 / 625 Watts

Lynx Series

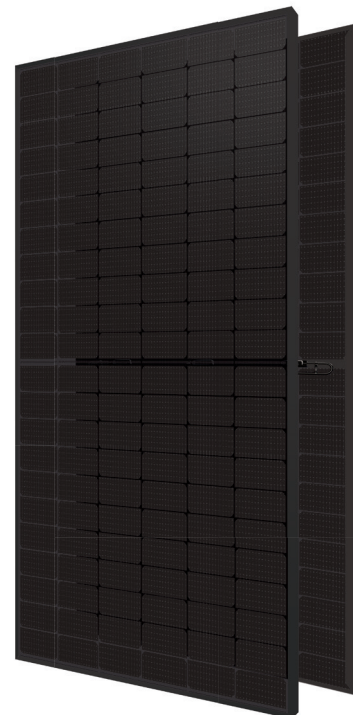


Overview

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

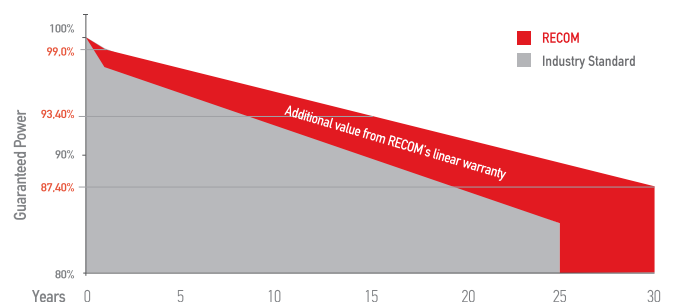


100 % electro-luminescence tested

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
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	• 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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Electrical Characteristics

POWER CLASS ⁽¹⁾			605		610		615		620		625	
Testing Condition			STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power	Pmax	[Wp]	605	457	610	461	615	465	620	469	625	473
Maximum Power Voltage	Vmp	[V]	40,29	37,75	40,43	37,92	40,57	38,09	40,72	38,26	40,86	38,44
Maximum Power Current	Imp	[A]	15,02	12,11	15,09	12,16	15,16	12,21	15,23	12,26	15,3	12,31
Open Circuit Voltage	Voc	[V]	48,4	46,03	48,62	46,22	48,82	46,41	49,02	46,6	49,22	46,7
Short Circuit Current	Isc	[A]	15,92	12,86	15,98	12,92	16,04	12,98	16,1	13,04	16,16	13,1
Module Efficiency	Eff	[%]	22,40		22,58		22,77		22,95		23,14	
Maximum Series Fuse	IR	[A]	30									
Maximum System Voltage	Vsys	[V]	1500 V DC (IEC/UL)									

(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

Bi Facial Output (4)

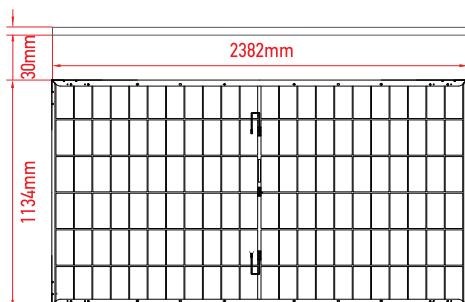
POWER CLASS			605		610		615		620		625	
			P _{max} [Wp]	Eff [%]	P _{max} [Wp]	Eff [%]	P _{max} [Wp]	Eff [%]	P _{max} [Wp]	Eff [%]	P _{max} [Wp]	Eff [%]
Power with Backside Gain	5	[%]	635,3	23,5%	640,5	23,7%	645,8	23,9%	651,0	24,1%	656,3	24,3%
	10	[%]	665,5	24,6%	671,0	24,8%	676,5	25,0%	682,0	25,2%	687,5	25,5%
	15	[%]	695,8	25,8%	701,5	26,0%	707,3	26,2%	713,0	26,4%	718,8	26,6%
	20	[%]	726,0	26,9%	732,0	27,1%	738,0	27,3%	744,0	27,5%	750,0	27,8%
	25	[%]	756,3	28,0%	762,5	28,2%	768,8	28,5%	775,0	28,7%	781,3	28,9%
	30	[%]	786,5	29,1%	793,0	29,4%	799,5	29,6%	806,0	29,8%	812,5	30,1%

(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 30 mm
Weight	33.5 Kg
Cell Type	N-type - 210mm x 105mm (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 (Black)
Junction Box	IP68, 3 Bypass diodes
Connector	MC4 compatible
Output cable	4mm ² - Length: = 300 mm or customized

Dimensions

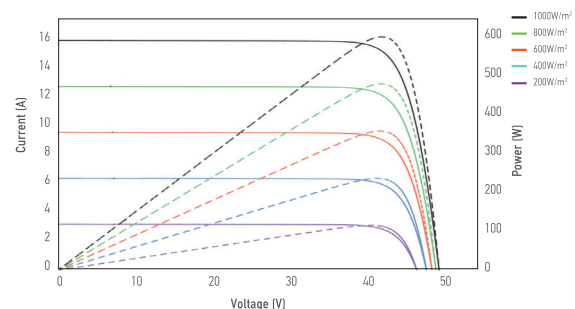


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I-V Curve

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



Temperature Characteristics

P _{max} Temperature Coefficient	-0.30% / °C
V _{oc} Temperature Coefficient	-0.24% / °C
I _{sc} 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	36
Pallets per Container	20
Pieces per Container	(36 + 36) x 10= 720 pcs

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