

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

675 / 680 / 685 / 690 / 695 / 700 / 705 / 710 Watts

Lynx Series

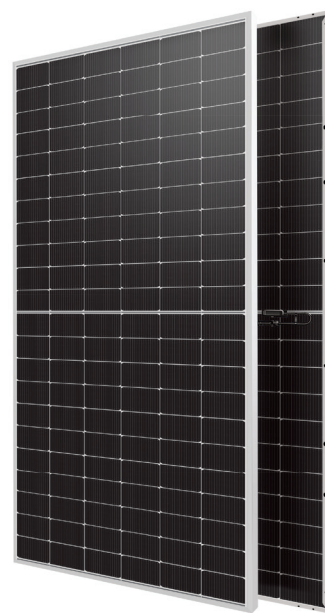


Overview

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

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



Guaranteed mechanical resistance to severe weather conditions



Positive Tolerance

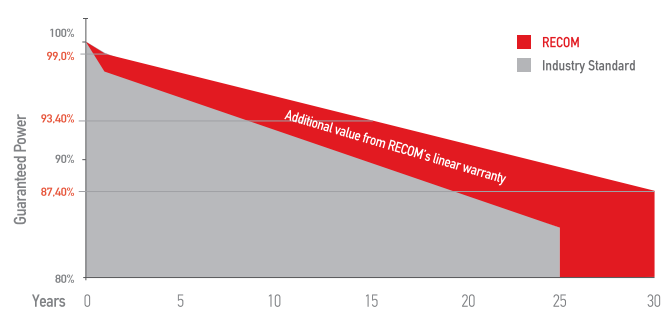


100 % electro-luminescence tested

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 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	$\geq 99.0\%$	2-30 Year Decline	$\leq 0.40\%$	30 Year Output	$\geq 87.40\%$
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Electrical Characteristics

POWER CLASS ⁽¹⁾			675		680		685		690		695		700		705		710	
Testing Condition			STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power	Pmax	[Wp]	675	512.90	680	516.60	685	520.30	690	524.00	695	527.80	700	531.50	705	533.50	710	537.30
Maximum Power Voltage	Vmp	[V]	39.50	37.00	39.70	37.20	39.90	37.40	40.10	37.60	40.30	37.80	40.50	38.00	40.70	38.00	40.90	38.20
Maximum Power Current	Imp	[A]	17.09	13.85	17.13	13.88	17.17	13.91	17.21	13.94	17.25	13.97	17.29	14.00	17.33	14.04	17.37	14.07
Open Circuit Voltage	Voc	[V]	47.30	44.80	47.50	45.00	47.70	45.10	47.90	45.30	48.10	45.50	48.30	45.70	48.50	45.80	48.70	45.90
Short Circuit Current	Isc	[A]	18.07	14.58	18.11	14.61	18.15	14.64	18.19	14.67	18.23	14.70	18.27	14.74	18.31	14.78	18.35	14.81
Module Efficiency	Eff	[%]	21.73		21.89		22.05		22.21		22.37		22.53		22.70		22.86	
Maximum Series Fuse	IR	[A]	35															
Maximum System Voltage	VSYS	[V]	1500V DC															

(1) Measurement Tolerances: 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			675		680		685		690		695		700		705		710	
			P _{max} [Wp]	Eff [%]	P _{max} [Wp]	Eff [%]	P _{max} [Wp]	Eff [%]	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	[%]	640,5	23,7%	645,8	23,9%	651,0	24,1%	656,3	24,3%	661,5	24,5%	661,5	24,5%	661,5	24,5%	661,5	24,5%
	+10	[%]	671,0	24,8%	676,5	25,0%	682,0	25,2%	687,5	25,5%	693,0	25,7%	693,0	25,7%	693,0	25,7%	693,0	25,7%
	+15	[%]	701,5	26,0%	707,3	26,2%	713,0	26,4%	718,8	26,6%	724,5	26,8%	724,5	26,8%	724,5	26,8%	724,5	26,8%
	+20	[%]	732,0	27,1%	738,0	27,3%	744,0	27,5%	750,0	27,8%	756,0	28,0%	756,0	28,0%	756,0	28,0%	756,0	28,0%
	+25	[%]	762,5	28,2%	768,8	28,5%	775,0	28,7%	781,3	28,9%	787,5	29,2%	787,5	29,2%	787,5	29,2%	787,5	29,2%
	+30	[%]	793,0	29,4%	799,5	29,6%	806,0	29,8%	812,5	30,1%	819,0	30,3%	819,0	30,3%	819,0	30,3%	819,0	30,3%

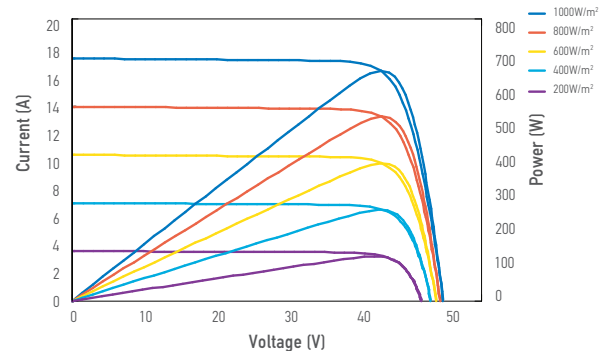
(4) Bifaciality Factor > 80% - Back-side power gain depends upon the specific project albedo - Efficiency is according to the surface of the module

Mechanical Data

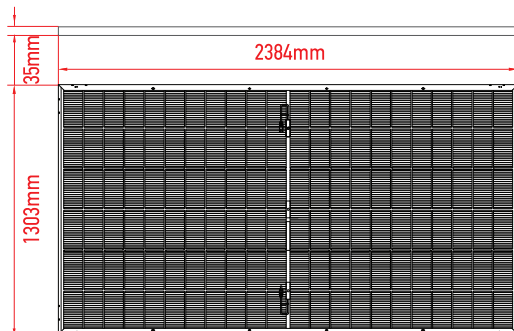
Dimensions	2384 mm x 1303 mm x 35 mm
Weight	38,5 Kg
Cell Type	N-type - (6 x 22 Pcs) - G12
Front Glass	2.0 mm Tempered and low iron glass + ARC
Rear Side	2.0 mm Tempered and low iron glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass diodes
Connector	MC4 compatible
Output cable	4mm² - Length: = 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

P _{max} Temperature Coefficient	-0.30% / °C
V _{oc} Temperature Coefficient	-0.25% / °C
I _{sc} Temperature Coefficient	+0.046% / °C
Operating Temperature	-40~+85 °C
Nominal Operating Module Temperature (NMOT)	43 ± 2 °C

Packing Configuration

Container	40'HC
Pieces per Pallet	31
Pallets per Container	18
Pieces per Container	(31+31) x 9 = 558 pcs

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