RECOM TECHNOLOGIES

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

460 / 465 / 470 / 475 / 480 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

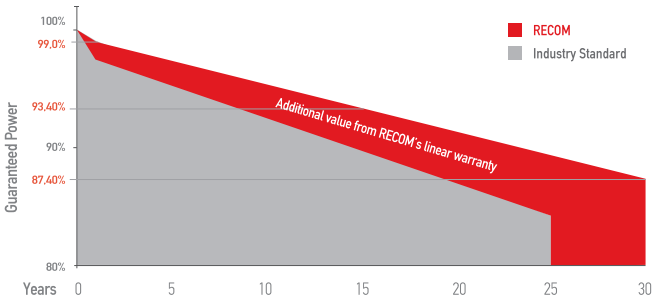
Key Benefits

- 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
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%

Lynx

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

RCM-xxx-7DBNE (xxx=460-480)

Electrical Characteristics

POWER CLASS [1]			460		465		470		475		480	
Testing Condition			STC [2]	*NMOT [3]*	STC	*NMOT*	STC	*NMOT*	STC	*NMOT*	STC	*NMOT*
Maximum Power	Pmax	[Wp]	460	*348*	465	*352*	470	*355*	475	*359*	480	*363*
Maximum Power Voltage	Vmp	[V]	34,72	*32,80*	34,94	*32,99*	35,15	*33,08*	35,37	*33,27*	35,58	*33,46*
Maximum Power Current	Imp	[A]	13,25	*10,61*	13,31	*10,67*	13,37	*10,73*	13,43	*10,79*	13,49	*10,85*
Open Circuit Voltage	Voc	[V]	41,94	*39,91*	42,13	*40,10*	42,32	*40,29*	42,51	*40,48*	42,70	*40,67*
Short Circuit Current	Isc	[A]	14,02	*11,31*	14,08	*11,36*	14,14	*11,41*	14,20	*11,46*	14,26	*11,51*
Module Efficiency	Eff	[%]	21,25		21,48		21,71		21,94		22,17	
Maximum Series Fuse	IR	[A]	30									
Maximum System Voltage	VSYS	[V]	1500V DC (IEC)									

(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			460		465		470		475		480	
			Pmax [Wp]	*Eff [%]*	Pmax [Wp]	*Eff [%]*	Pmax [Wp]	*Eff [%]*	Pmax [Wp]	*Eff [%]*	Pmax [Wp]	*Eff [%]*
Power with Backside Gain	+5	[%]	483,0	*22,3%*	488,3	*22,6%*	493,5	*22,8%*	498,8	*23,0%*	504,0	*23,3%*
	+10	[%]	506,0	*23,4%*	511,5	*23,6%*	517,0	*23,9%*	522,5	*24,1%*	528,0	*24,4%*
	+15	[%]	529,0	*24,4%*	534,8	*24,7%*	540,5	*25,0%*	546,3	*25,2%*	552,0	*25,5%*
	+20	[%]	552,0	*25,5%*	558,0	*25,8%*	564,0	*26,1%*	570,0	*26,3%*	576,0	*26,6%*
	+25	[%]	575,0	*26,6%*	581,3	*26,8%*	587,5	*27,1%*	593,8	*27,4%*	600,0	*27,7%*
	+30	[%]	598,0	*27,6%*	604,5	*27,9%*	611,0	*28,2%*	617,5	*28,5%*	624,0	*28,8%*

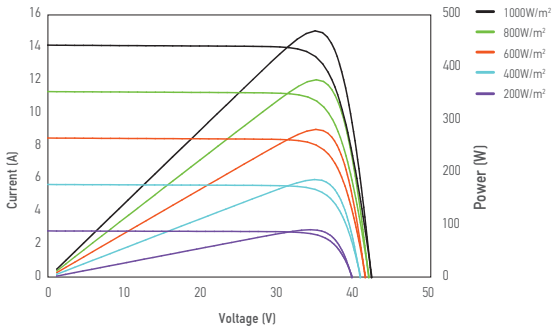
(4) Bifaciality Factor > 80% - Back-side power gain depends upon the specific project albedo - Efficiency is according to the surface of the module

Mechanical Data

Dimensions	1909 mm x 1134 mm x 30 mm
Weight	27,0 Kg
Cell Type	N-Type TOPCon- 182mm x 91mm (2 x 60 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: 350 mm or can be customized

I-V Curve

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



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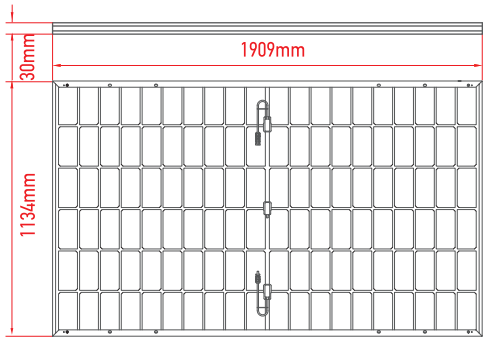

Temperature Characteristics

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	36
Pallets per Container	24
Pieces per Container	(36+36) x 12 = 864 pcs

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**Release RCM-xxx-7DBNE(xxx=460-480)-16-M10-30-SG-15V-016-2023-03-v3.0