RECOM TECHNOLOGIES

HJT MONO CRYSTALLINE HALF CUT MODULE – DOUBLE GLASS

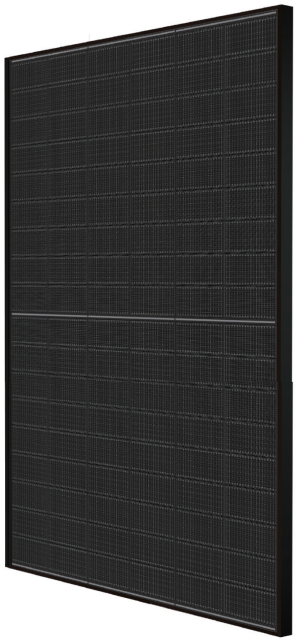
430 / 435 / 440 / 445 / 450 Watts

Lion Series

EUROPEAN MANUFACTURER

Overview

Hetero Junction (HJT) photovoltaic module is a Ground breaking Technology. HJT technology guarantees high performance and low degradation of the PV module, substantially improving the results and the yield in the time. "Lion" 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

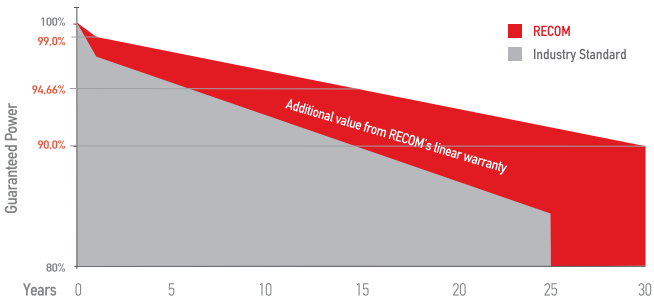
Key Benefits

- Anti-PID & LID Technology
- 30 Years Limited Product Warranty
- Higher yield per surface area
- Low Pmax at -0,24 % / °C
- 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 A according to UL790
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 94,66% of the nominal performance • 30-year transferable linear power output warranty

Linear Performance Warranty



First Year Output	≥ 99.0%	2-30 Year Decline	≤ 0.31%	30 Year Output	≥ 90.0%

Lion

HJT MONO CRYSTALLINE HALF CUT MODULE – DOUBLE GLASS

RCM-xxx-7DHG (xxx=430-450)

Electrical Characteristics

POWER CLASS [1]			430		435		440		445		450	
Testing Condition			STC [2]	*NMOT [3]*	STC	*NMOT*	STC	*NMOT*	STC	*NMOT*	STC	*NMOT*
Maximum Power	Pmax	[Wp]	430	*327*	435	*331*	440	*335*	445	*338*	450	*342*
Maximum Power Voltage	Vmp	[V]	34,60	*32,64*	34,86	*32,91*	35,12	*33,17*	35,38	*33,34*	35,63	*33,60*
Maximum Power Current	Imp	[A]	12,43	*10,02*	12,48	*10,06*	12,53	*10,10*	12,58	*10,14*	12,63	*10,18*
Open Circuit Voltage	Voc	[V]	41,37	*39,48*	41,64	*39,74*	41,91	*40,00*	42,18	*40,26*	42,44	*40,50*
Short Circuit Current	Isc	[A]	12,95	*10,44*	13,00	*10,48*	13,05	*10,52*	13,10	*10,56*	13,15	*10,60*
Module Efficiency	Eff	[%]	22,02		22,28		22,53		22,79		23,04	
Maximum Series Fuse	IR	[A]	25									
Maximum System Voltage	VSYS	[V]	1500 V (IEC)									

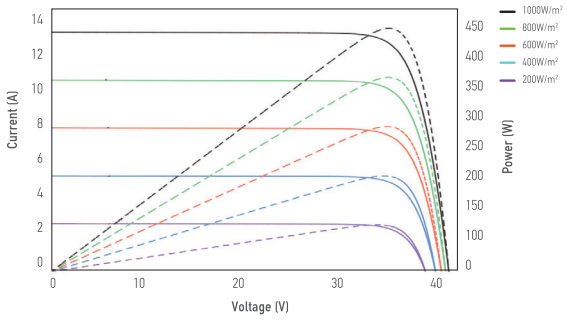
(1) Measurement Tolerances: Pmax (± 3%), Isc & Voc (± 3%) - Power Classification 0/+5W
(2) STC (Standard Testing Condition): Irrandiance 1000W/m², Cell Temperature 25°C, AM 1.5
(3) NMOT (Nominal Operating Module Temperature): Irrandiance 800W/m², NMOT, Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

Mechanical Data

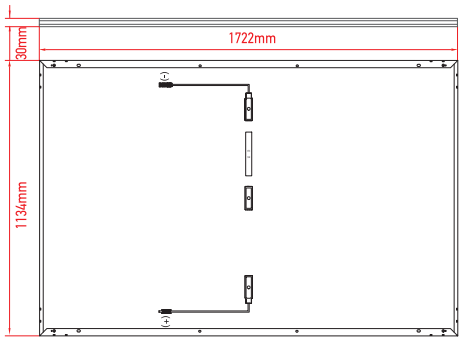
Dimensions	1722 mm x 1134 mm x 30 mm
Weight	22.0 Kg
Cell Type	HJT - 182mm x 91mm (2 x 54 Pcs) - G10
Front Glass	1.6 mm Tempered and low iron glass + ARC
Rear Side	1.6 mm Tempered and low iron glass
Frame	Anodized Aluminium Alloy (Black)
Junction Box	IP68, 3 Bypass diodes
Connector	MC4 compatible
Output cable	4mm² - Length = 1200mm 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	-0.24% / °C
Voc Temperature Coefficient	-0.22% / °C
Isc Temperature Coefficient	+0.047% / °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	26
Pieces per Container	(36+36) x 13 = 936 pcs

**Release RCM-xxx-7DHG(xxx=430-450)-18-610-30-BG-B-15V-003-2023-08-v3.0