

HETEROJUNCTION BIFACIAL MODULE

325 - 410 Watts

RECOM HJT Bifacial Module

Overview

The Heterojunction Technology (HJT) combines high efficiency with a simple design reducing the number of manufacturing steps and achieving an important cost reduction. It combines the advantages of mono crystalline silicon solar cells with the good absorption and the superior passivation characteristics of amorphous silicon leading to a higher efficiency.

Key Benefits

THE ADVANCED HETEROJUNCTION TECHNOLOGY

1. Is highly efficient and produces more power per square meter than usual high efficiency cells (**20% more efficiency than a typical mono cell**).
2. Ensures higher efficiency and delivers higher output even at high temperatures (**much lower temperature coefficient** compared to a typical mono cell).

SMART WIRE TECHNOLOGY

HJT RECOM modules support the innovative smart wire (SWT) technology, a revolutionary cell wiring process that uses micro-wires instead of the traditional busbars.

SWT main benefits are:



Increase in efficiency by lowering ohmic losses and improved light management



Low temperature contacting during module lamination



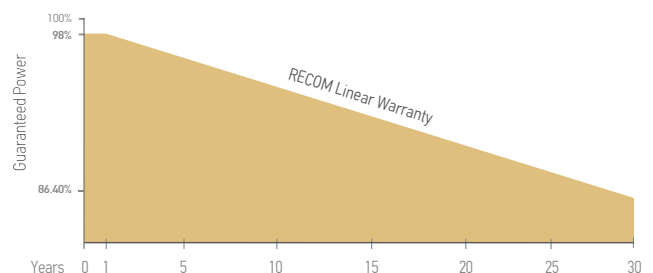
Enhancement of module reliability



Improved aesthetics



Linear Performance Warranty



HETEROJUNCTION BIFACIAL MODULE

RCM-xxx-6HJB-GG (xxx=325-340) / RCM-xxx-6HJA-GG (xxx=390-410)

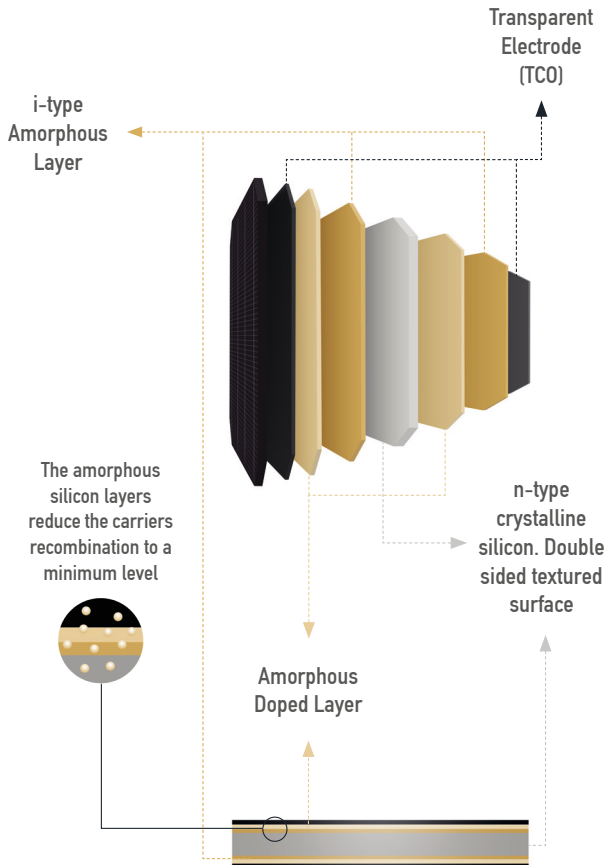
Electrical Characteristics

	* BIFACIAL MODULES									
	60 Cell Modules					72 Cell Modules				
Rated Power	325W	330W	335W	340W	390W	395W	400W	405W	410W	
Maximum Power Voltage (Vmp)	36.50V	36.80V	37.10V	37.30V	44.10V	44.40V	44.60V	44.90V	45.20V	
Maximum Power Current (Imp)	8.85A	8.97A	9.04A	9.05A	8.85A	8.90A	8.96A	9.02A	9.08A	
Open Circuit Voltage (Voc)	44.30V	44.50V	44.80V	45.30V	53.20V	53.20V	53.60V	53.90V	54.50V	
Short Circuit Current (Isc)	9.18A	9.30A	9.37A	9.39A	9.31A	9.35A	9.41A	9.47A	9.55A	
Module Efficiency	19.10%	19.13%	19.16%	19.19%	19.22%	19.25%	19.28%	19.31%	19.34%	
Maximum System Voltage	1.500 V DC									

Tested at Standard Test Conditions. Measurement tolerances: ± 3%

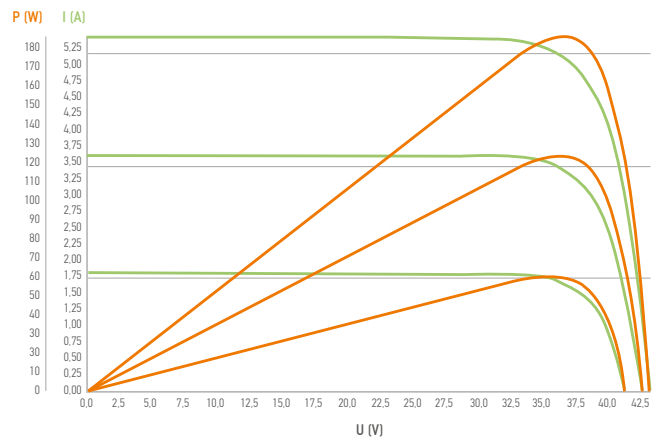
*Bifacial Gain: An energy gain of 20% can be achieved from the back side compared to the front side at the standard test conditions, depending on the installation conditions.

HJT Cell Structure



I-V Curve

Low Irradiance IV Curves (200, 400, 600 W/m²)



Mechanical Data

Dimensions 1660mm x 990mm (60-cell modules)
1983mm x 998mm (72-cell modules)

Temperature Characteristics

Pmax Temperature Coefficient	-0.25% / °C
Voc Temperature Coefficient	-0.27% / °C
Isc Temperature Coefficient	+0.045% / °C

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