

Silver Series

TPC-RC66HCB

Product Range

610-630W

N-Type Rectangle Bifacial
Transparent Backsheet

630W

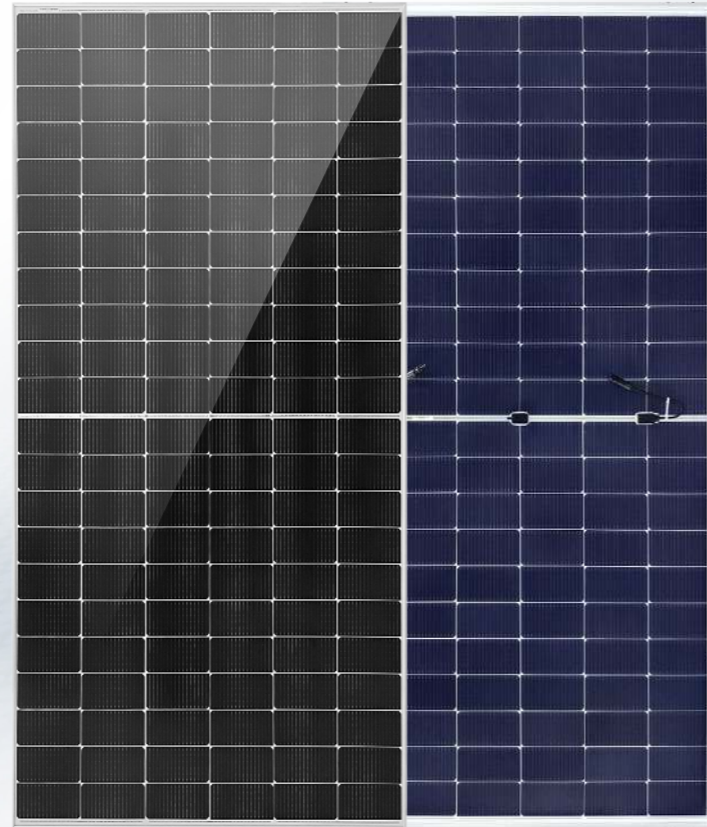
Maximum Power Output

0~+5W

Positive Power Tolerance

23.32%

Maximum Efficiency



BIFACIAL, 66-CELL HALF-CUT SERIES

ELECTRICAL PERFORMANCE

Module Type: TPC-RC66HCB	610M / 615M / 620M / 625M / 630M
Maximum Power(Wp)	610W 615W 620W 625W 630W
Open Circuit Voltage(Voc)	48.10V 48.30V 48.50V 48.65V 48.80V
Short Circuit Current(Isc)	16.05A 16.10A 16.15A 16.20A 16.25A
Maximum Power Voltage(Vm)	39.77V 39.96V 40.15V 40.30V 40.47V
Maximum Power Current(Imp)	15.34A 15.39A 15.45A 15.51A 15.57A
Module Efficiency	22.58% 22.77% 22.95% 23.14% 23.32%
Maximum Series Fuse	30A
Watts Positive Tolerance	0~+5W
Number Of Diode	3
Standard Test Conditions	1000W/M ² ,25°C,AM1.5
Maximum System Voltage	1500V/DC
Temperature-Coefficient Isc	+0.043%/°C
Temperature-Coefficient Voc	-0.24%/°C
Temperature-Coefficient Pmpp	-0.30%/°C
Operating Temperature	-40°C...+85°C
Normal Operating Cell Temperature	45±2°C
Load Capacity For The Cover Of The Module (Glass)	5400Pa(IEC61215)(snow)
Load Capacity For The Front & Back Of The Module	2400Pa(IEC61215)(wind)

ELECTRICAL PERFORMANCE (NOCT)

Module Type: TPC-RC66HCB	610M / 615M / 620M / 625M / 630M
Maximum Power(Wp)	464W 468W 472W 476W 480W
Open Circuit Voltage(Voc)	45.70V 45.90V 46.10V 46.30V 46.50V
Short Circuit Current(Isc)	12.84A 12.88A 12.92A 12.96A 13.00A
Maximum Power Voltage(Vm)	37.82V 37.99V 38.19V 38.39V 38.59V
Maximum Power Current(Imp)	12.27A 12.32A 12.36A 12.40A 12.44A

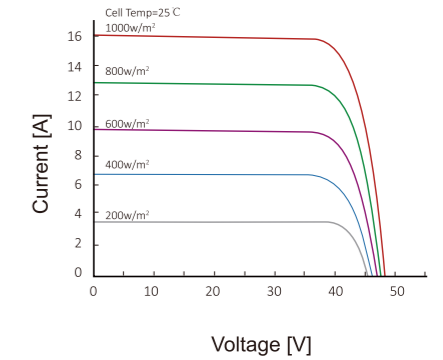
MECHANICAL CHARACTERISTICS

Front Cover (Material / Thickness)	low-iron tempered glass / 3.2mm
Backsheet (Color)	transparent
Cell (Quantity / Material / Dimensions)	132(6x11x2) / monocrystalline silicon,bifacial
Frame (Material / Color)	aluminum hollow-chamber frame on each side anodized aluminum alloy / silver
Junction Box (Protection Degree)	≥IP68
Cables & Plug Connectors	4mm ² , 300mm in length,length can be customized
Module Dimensions (L / W / H)	2382(±2)x1134(±2)x30/35mm
Module Weight	27.5kg / 28kg
Application Class	Class A
Electrical Protection Class	Class II
Fire Safety Class	Class C

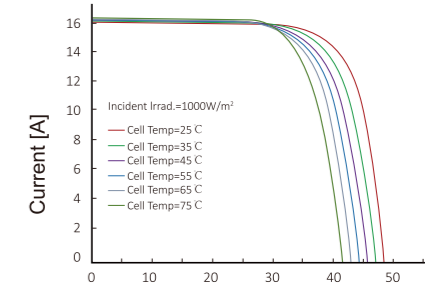
PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
40HQ	36 (30mm)	1060	1140x1120x2540	720
	31 (35mm)	935	1140x1120x2540	620

CURRENT-VOLTAGE CURVES:

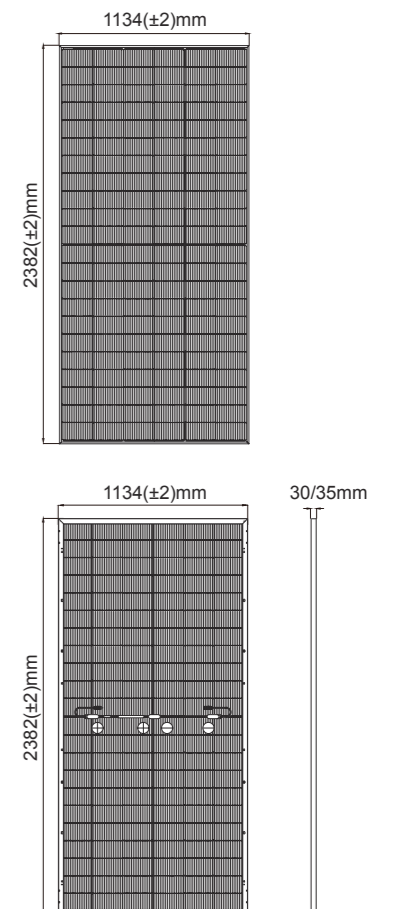


Module characteristics at constant module temperatures of 25°C and variable levels of irradiance



Module characteristics at variable module temperatures and constant module irradiance of 1.000 W/m²

MODULE DIAGRAM:



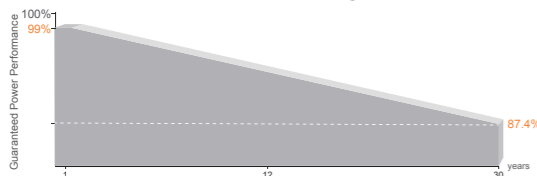
Linear Performance Warranty

15 Year Product Warranty

30 Year Linear Power Warranty

<1% First year Power Degradation

<0.4% Year 2-30 Power Degradation



Certifications

Quality Management System and Product Certification.

IEC61215(2021), IEC61730(2023), IEC61701

IEC61215-2 (bifaciality): 2021

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018: Occupational health and safety management systems



MBB Half-Cut Rectangle Solar Cell

182x105mm, 132cells.

Higher Module Conversion Efficiency

Higher module output up to 630W with module efficiency up to 23.32%.

Low-Light Performance

Advanced glass and surface texturing allow for excellent performance in low-light environments.

Light-Weight Design

Light-weight design using transparent backsheet for easy installation and low BOS cost.

Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.

