

**15 YEAR
PRODUCT
WARRANTY**
**30 YEAR
PERFORMANCE
WARRANTY**



A.CELLS ACPSM 560-585W

MONO-FACIAL MODULE

144 Cells

Monofacial N-Type/ TOPCON

560-585W

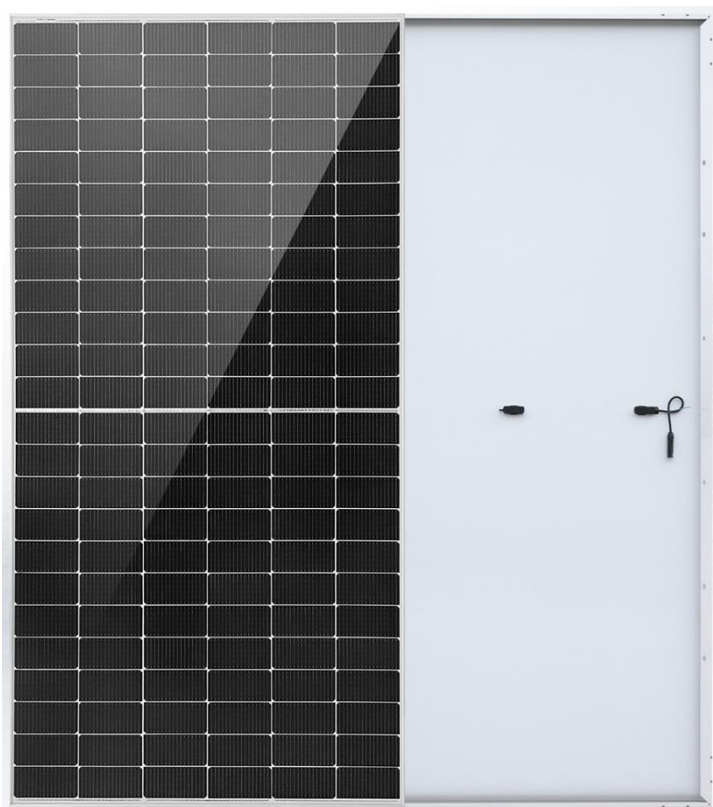
Power Output

22.65%

Maximum Efficiency

0~+5W

Positive Power Tolerance



MBB Half-Cut Solar Cell

144 cells (6x12x2) ; 16 BusBar



Higher Module Conversion Efficiency

Higher module output up to 585W with module efficiency up to 22.65%.



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.



Low-Light Performance

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



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



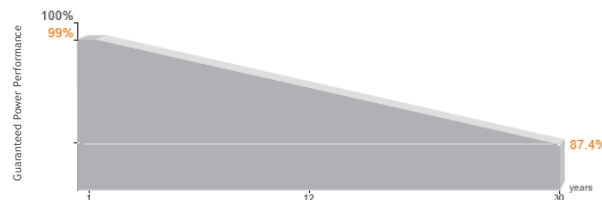
Linear Performance Warranty

15 Year Product Warranty

30 Year Linear Power Warranty

<1% First year Power Degradation

<0.4% Year 2-30 Power Degradation



Certifications

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



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182mm SERIES, 72-CELL HALF-CUT SERIES

Electrical Data (STC)

Module Type: ACPSM	560M	565M	570M	575M	580M	585M
Maximum Power (Wp)	560W	565W	570W	575W	580W	585W
Open Circuit Voltage-Voc (V)	50.30V	50.45V	50.60V	50.75V	50.90V	51.10V
Short Circuit Current-Isc(A)	13.97A	14.04A	14.11A	14.18A	14.25A	14.31A
Maximum Power Voltage-Vmp (V)	41.92V	42.07V	42.22V	42.37V	42.52V	42.70V
Maximum Power Current-Imp(A)	13.36A	13.43A	13.50A	13.57A	13.64A	13.70A
Module Efficiency (%)	21.67%	21.87%	22.06%	22.25%	22.45%	22.65%

STC: irradiance 1000W/m², cell temperature 25°C, Air Mass: AM1.5

Electrical Data (NOCT)

Module Type: ACPSM	560M	565M	570M	575M	580M	585M
Maximum Power (Wp)	421W	425W	429W	433W	437W	441W
Open Circuit Voltage-Voc (V)	47.78V	47.91V	48.04V	48.17V	48.28V	48.40V
Short Circuit Current-Isc(A)	11.28A	11.35A	11.42A	11.48A	11.55A	11.61A
Maximum Power Voltage-Vmp (V)	39.45V	39.58V	39.71V	39.84V	39.95V	40.18V
Maximum Power Current-Imp(A)	10.67A	10.74A	10.81A	10.87A	10.94A	11.00A

NOCT: irradiance 800W/m², ambient temperature 20°C, Air Mass: AM1.5, wind speed 1m/s

Mechanical Data

Solar Cells	Mono N-type 182*91mm, 16 BB
Cell Configuration	144 cells (6*24)
Module Dimensions	2278*1134*30mm
Weight	27.2kg
Front Cover	low-iron Tempered Glass / 3.2mm
J-Box	IP68, 3 diodes
Cable	4mm ² / 1200mm(+) ; 1200mm(-) or Customized length
Connectors	MC4 or MC4 Compatible

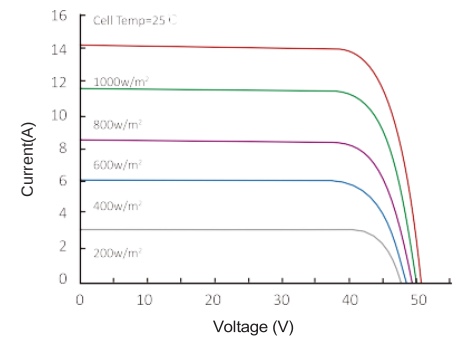
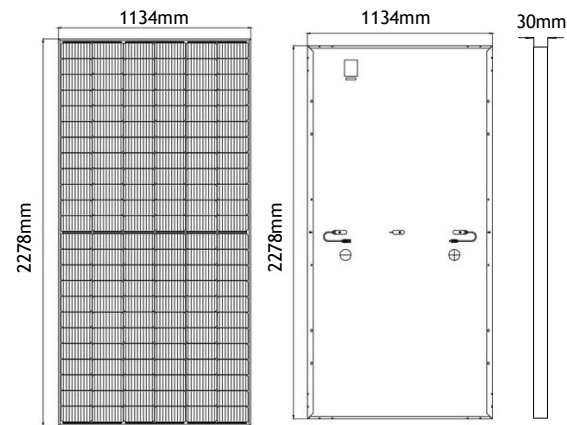
Temperature & Maximum ratings

Maximum Series Fuse	25A
Watts Positive Tolerance	0~+5W
Maximum System Voltage	1500 VDC
Temperature Coefficient of Isc	+0.043%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Pmax	-0.30%/°C
Operating Temperature	-40°C ~+85°C
Normal Operating Cell Temperature	45±2°C
Application Class	Class A
Electrical Protection Class	Class II
Fire Safety Class	Class C

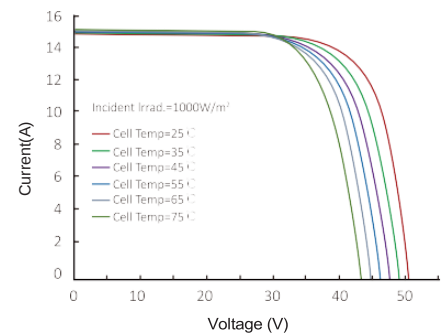
Packing

Container Size	40HQ
Number of modules per container	720 pcs
Package	36pcs/pallet
Package Number	20 pallets
Package Dimension	2300*1120*1260 mm/pallet

Dimension of PV Module (mm)



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



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