



A.CELLS ACPSM 535-560W

MONO-FACIAL MODULE

144 Cells

Mono P-Type/ ACPSM

535-560W

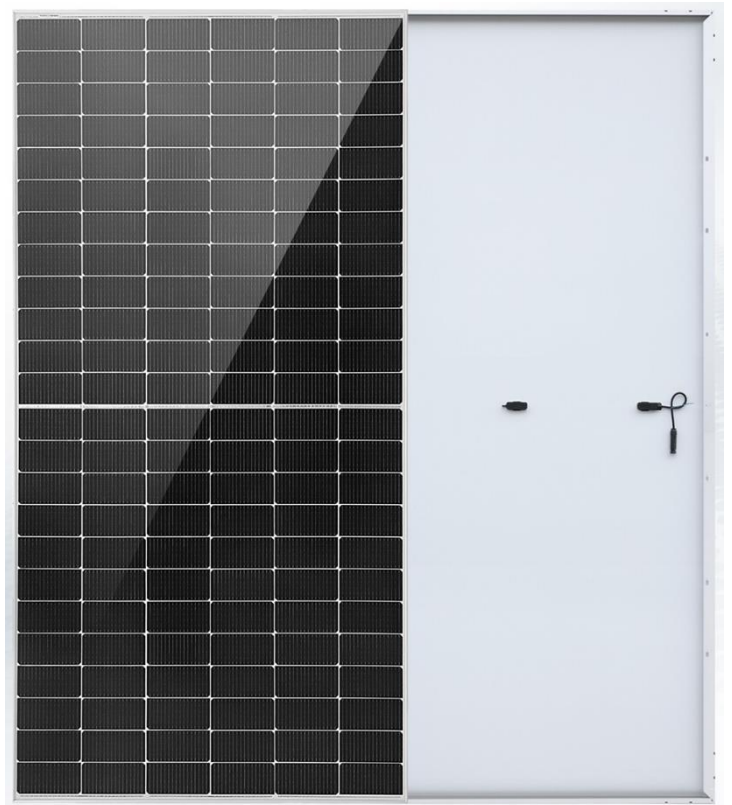
Power Output

21.67%

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 560W with module efficiency up to 21.67%.



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).



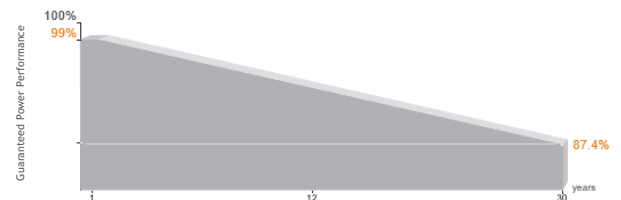
Linear Performance Warranty

12 Year Product Warranty

25 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





182mm SERIES, 72-CELL HALF-CUT SERIES

Electrical Data (STC)

Module Type : ACPSPM	535M	540M	545M	550M	555M	560M
Maximum Power (Wp)	535W	540W	545W	550W	555W	560W
Open Circuit Voltage-Voc(V)	49.35V	49.50V	49.65V	49.80V	50.02V	50.10V
Short Circuit Current-Isc (A)	13.78A	13.85A	13.92A	13.98A	14.07A	14.11A
Maximum Power Voltage-Vmp(V)	41.50V	41.65V	41.80V	41.95V	42.11V	42.26V
Maximum Power Current-Imp(A)	12.90A	12.97A	13.04A	13.12A	13.18A	13.25A
Module Efficiency (%)	20.7%	20.9%	21.1%	21.3%	21.5%	21.67%

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

Electrical Data (NOCT)

Module Type : ACPSPM	535M	540M	545M	550M	555M	560M
Maximum Power (Wp)	404.5W	408.5W	412W	416W	420W	424W
Open Circuit Voltage-Voc(V)	46.35V	46.50V	46.65V	46.8V	46.85V	47.00V
Short Circuit Current-Isc(A)	10.95A	11.00A	11.07A	11.11A	11.21A	11.28A
Maximum Power Voltage-Vmp(V)	39.20V	39.35V	39.50V	39.65V	39.66V	39.78V
Maximum Power Current-Imp(A)	10.32A	10.38A	10.43A	10.51A	10.59A	10.66A

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

Mechanical Data

Solar Cells	Mono P-type 182*91mm, 16 BB
Cell Configuration	144 cells (6*24)
Module Dimensions	2279*1134*30mm
Weight	27.2kg
Front Cover	low-iron Tempered Glass /3.2mm
J-Box	IP68, 3 diodes
Cable	4mm ² / 350mm(+) / 350mm(-) or customized length
Connectors	MC4 or MC4 Compatible

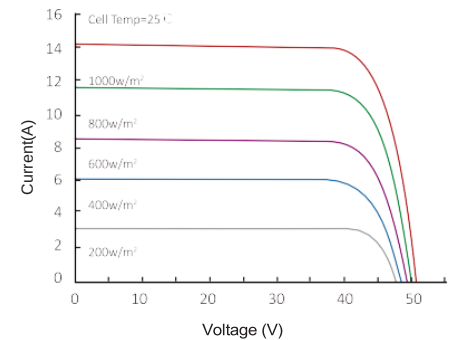
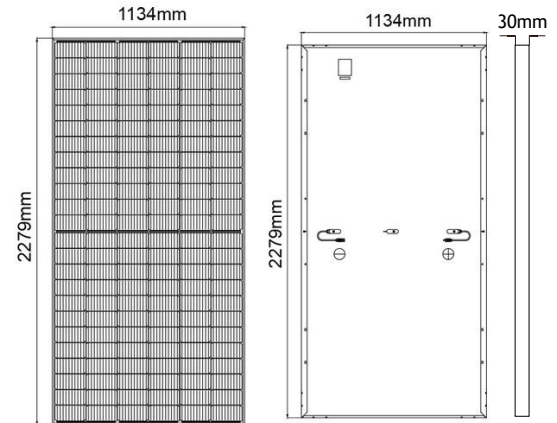
Temperature & Maximum ratings

Maximum Series Fuse	25A
Watts Positive Tolerance	0~+5W
Maximum System Voltage	1500 VDC
Temperature Coefficient of Isc	+0.048%/°C
Temperature Coefficient of Voc	-0.270%/°C
Temperature Coefficient of Pmax	-0.350%/°C
Operating Temperature	-40°C~+85°C
Normal Operating Cell Temperature	45±2°C

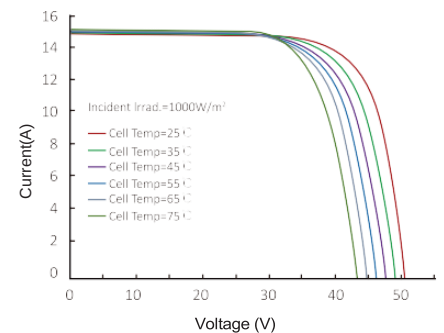
Packing & Protection Class

Container Size	40 HQ
Number of modules per container	720 pcs
Package	36pcs/pallet
Package Number	20 pallets
Package Dimension	2300*1120*1260 mm/pallet
Application Class	Class A
Electrical Protection Class	Class II
Fire Safety Class	Class C

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