

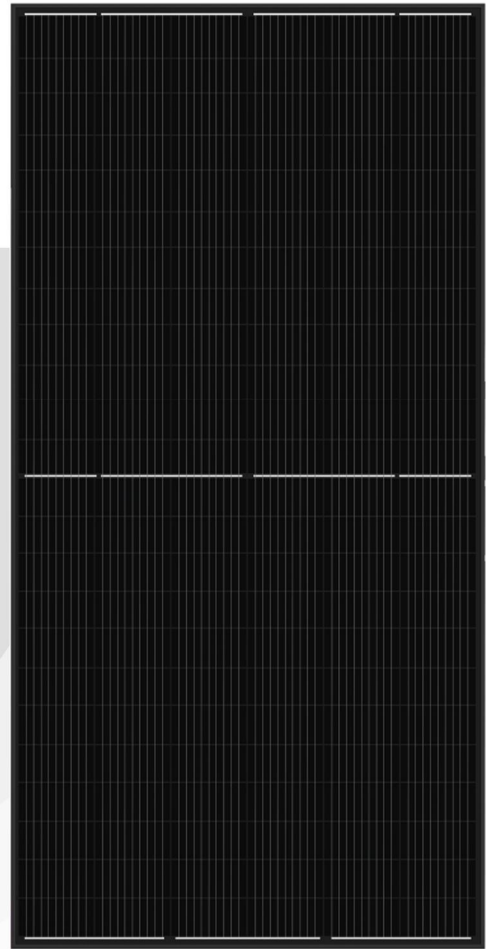


# Mono All Black

## JC(520-550)-144M-AB

Half-Cell High Efficiency PV Module

Max Module Efficiency: 21.30%



### KEY FEATURES

- Excellent module efficiency up to:21.30%
- IP68 junction box for long-term weather endurance
- Heavy snow load up to 5400 Pa, wind load up to 3600 Pa
- PID: Selected material and stringent quality system ensure PID free
- Applicable to harsh environment of deserts, farmlands and seashores
- Much lower risk of hot spot

### CERTIFICATE

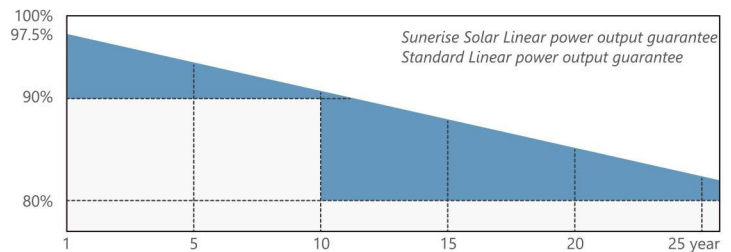


### COMPREHENSIVE

Products and System Certificates  
 IEC 61215 / IEC 61730 / CE / INMETRO  
 ISO 9001: 2015/Quality management system  
 ISO 14001: 2015/Standards for environmental management system  
 OHSAS 18001: 2007/International standards for occupational health & safety

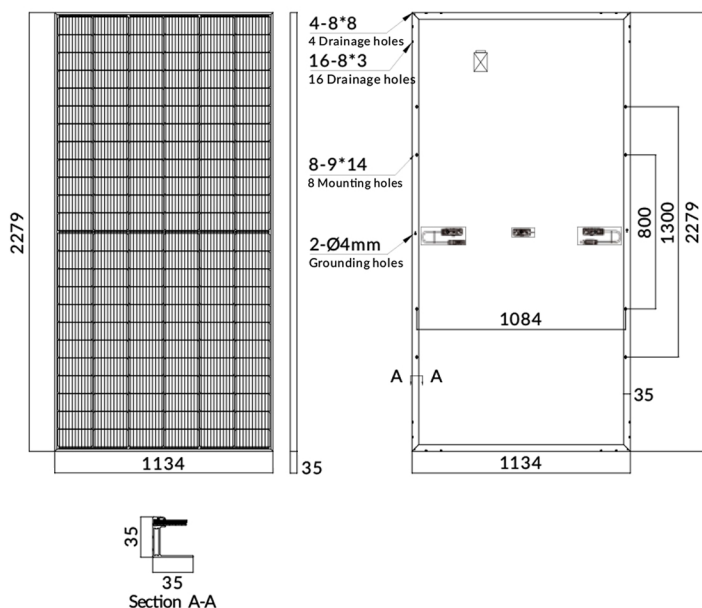
### WARRANTY

- 30 years** Linear power output warranty
  - \*12 years minimum 92% power output
  - \*30 years minimum 83% power output
- 12 years** Product warranty on materials and workmanship
  - According to the applicable Einnova Solarline Limited Warranty Statement



# JC(520-550)-144M-AB

## DESIGN



## MECHANICAL SPECIFICATION

Cell Type	Dimension (L×W×T)	Weight
Mono 182*91mm	2279×1134×35mm	29kg
Packing	31pcs/pallet, 620pcs/40HQ	
Cable (Including connector)	4.0mm <sup>2</sup> , Portrait: 350mm(+)/350mm(-) Landscape: 1400mm(+)/1400mm(-)	
No. of Cells	144 (6×24)	
Glass	3.2mm High Transmission, Antireflection Coating	
Junction box	IP68, 3 Bypass Diodes	
Connector	MC4 Compatible	

## OPERATING PARAMETERS

Maximum system voltage	1000V/1500V DC
Operating Temperature	-40 ~ +85°C
Maximum series fuse rating	25A
Snow load, frontside	5400Pa
Wind load, backside	3600Pa
Nominal operating cell temperature	45°C±2°C
Application level	Class A

## ELECTRICAL CHARACTERISTICS(STC)

MODULE TYPE	JC(520-550)-144M-AB						
Maximum Power (Pmax)	520W	525W	530W	535W	540W	545W	550W
Open-circuit Voltage (Voc)	48.90V	49.05V	49.20V	49.35V	49.50V	49.65V	49.80V
Maximum Power Voltage (Vmp)	41.05V	41.20V	41.35V	41.50V	41.65V	41.80V	41.95V
Short-circuit Current (Isc)	13.48A	13.65A	13.71A	13.78A	13.85A	13.92A	13.98A
Maximum Power Current (Imp)	12.68A	12.75A	12.82A	12.90A	12.97A	13.09A	13.12A
Module Efficiency (%)	20.10%	20.30%	20.50%	20.70%	20.90%	21.10%	21.30%
Power Tolerance	0~+5W						
Temperature Coefficient of Isc	0.05%/°C						
Temperature Coefficient of Voc	-0.31%/°C						
Temperature Coefficient of Pmax	-0.35%/°C						

Standard Test Environment : Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, Spectrum AM1.5

## ELECTRICAL CHARACTERISTICS(NOCT)

MODULE TYPE	JC(520-550)-144M-AB						
Maximum Power (Pmax)	393W	397W	401W	405W	408W	412W	416W
Open-circuit Voltage (Voc)	45.94V	46.06V	46.18V	46.31V	46.43V	46.55V	46.68V
Maximum Power Voltage (Vmp)	38.15V	38.36V	38.57V	38.78V	38.99V	39.20V	39.43V
Short-circuit Current (Isc)	10.93A	10.97A	11.01A	11.05A	11.09A	11.13A	11.17A
Maximum Power Current (Imp)	10.31A	10.35A	10.39A	10.43A	10.47A	10.51A	10.55A

Standard Test Environment : Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s