

# A-SOLAR

## 550 WATT

BEST CHOICE FOR RESIDENTIAL  
COMMERCIAL AND ULTRA-LARGE  
POWER PLANT



POWER RANGE

**550W**

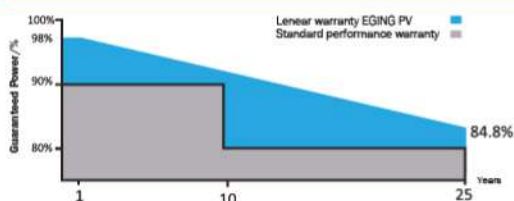
PANEL TYPE

**Half Cut  
Monocrystalline**

### QUALIFICATIONS AND CERTIFICATES



### Warranty



### KEY FEATURES



#### Mbb half cell design

Half-cut cells brings lower resistance and increased Multi Busbar reflectance ensures higher power output



#### More Power

Innovative 210mm big cell applied to ensure module power up to 540



#### High Reliability

Strict in-house testing in PV Lab which is CNAS approved & TUV/VDE certified



#### Excellent Low-light Performance

Advanced solar cell surface texturing technology allows for excellent performance in low-light environment



#### Highly Strengthened Design

Certified to withstand:5400Pa snow load and 2400Pa wind load



#### PID Resistant

Excellent PID resistance performance optimized by unique structural design

**10**  
YEARS

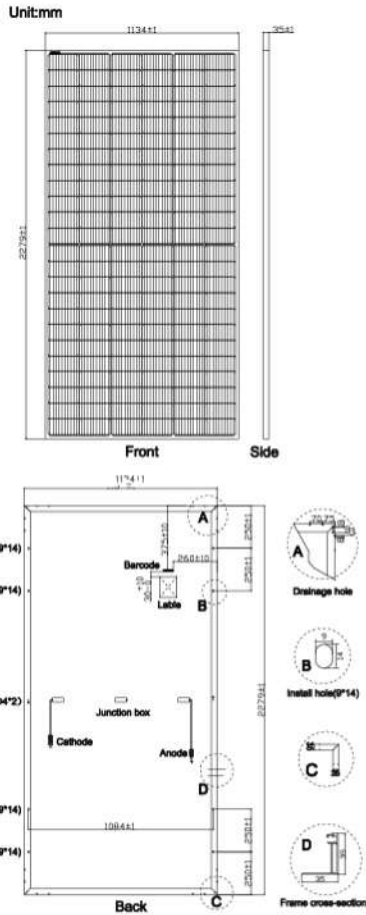
Guarantee on product material and workmanship

**25**  
YEARS

Linear Power output warranty

# Solar Module Dimensions

## PV DRAWINGS



## ELECTRICAL DATA (STC)

Peak Power(Pmax)	525.00	535.00	540.00	545.00	550.00
Maximum Power Voltage(Vmp)	41.28	41.60	41.76	41.93	42.10
Maximum Power Current(Imp)	12.72	12.84	12.93	13.00	13.16
Open Circuit Voltage(Voc)	49.10± 3%	49.50± 3%	49.70± 3%	49.90± 3%	50.10± 3%
Short Circuit Current(Isc)	13.56± 3%	13.74± 3%	13.83± 3%	13.92± 3%	14.01± 3%
Module Efficiency( % )	20.31	20.70	20.89	21.08	21.28

\* STC: irradiance 1000 W/m<sup>2</sup>, AM 1.5, and cell temperature of 25°C

## ELECTRICAL DATA (NOCT)

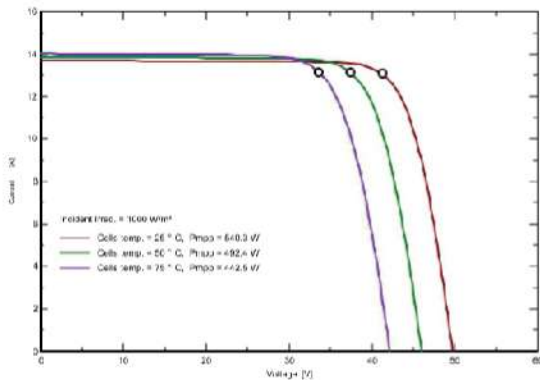
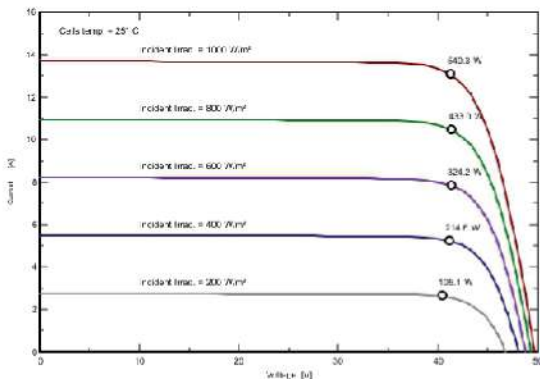
Peak Power(Pmax)	390.30	397.7	401.4	405.1	408.9
Maximum Power Voltage(Vmp)	38.30	38.62	38.78	38.93	39.09
Maximum Power Current(Imp)	10.20	10.30	10.35	10.41	10.46
Open Circuit Voltage(Voc)	46.00± 3%	46.36± 3%	46.54± 3%	46.73± 3%	46.92± 3%
Short Circuit Current(Isc)	10.81± 3%	10.97± 3%	11.05± 3%	11.13± 3%	11.20± 3%

\* NOCT: irradiance 800 W/m<sup>2</sup>, AM 1.5, ambient temperature 20°C, wind speed 1 m/s

## TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	25 A
Power Tolerance	0~+3 W
Pmax Temperature Coefficients (W/°C)	-0.350% /°C
Voc Temperature Coefficients (V/°C)	-0.285% /°C
Isc Temperature Coefficients (A/v )	+0.045% /°C
NOCT Nominal Operating Cell Temperature (°C)	45± 2°C
Operating and Storage Temperature (°C)	-40~+85°C

## IV CURVE (550W)



## MECHANICAL CHARACTERISTICS

Cell Type	182*91M ono
No. of Cells	144 (12*12)
Dimensions	2279*1134*35mm
Weight	28.40kg
Front Glass	3.2mm high transmission low iron tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm <sup>2</sup> cable 35cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa /5400Pa

## PACKING WAY

20FT container	5 Packages/155pcs
40HQ container	20 Packages/620pcs