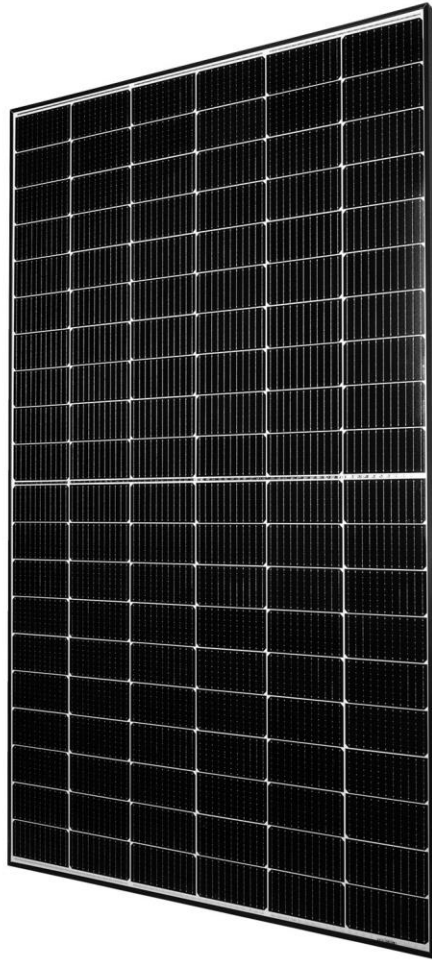


Monocrystalline

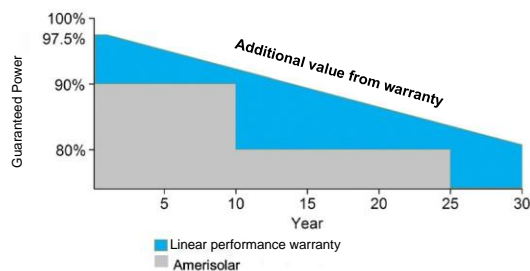
**20 Years**  
Product warranty

**30 Years**  
Warranty for extra linear power output

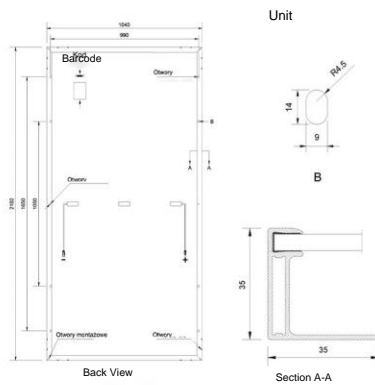


## ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 21.27% by using innovative Half-cell design and Multi-busbar(MBB) cell technology.
- Low temperature coefficient and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.



### DIMENSIONS AND STRUCTURE



### MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline PERC 166*83 mm
Number Of Cells	144(6x24)
Module Dimensions	2102 x 1040 x 35 mm (82.76 x 40.94 x 1.38 inches)
Weight	24 kg (52.9 lbs)
Front cover	3.2mm (0.13inches) tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cable	4mm2 (0.006inches2), Length: Portrait: 300 mm (11.81 inches); Landscape:1400 mm (55.12 inches)
Connector	MC4

### ELECTRICAL CHARACTERISTICS AT STC

STC: Irradiance 1000W/m2, Cell temperature 25°C, AM 1.5; Tolerance of Pmax: ±3%; Measurement Tolerance: ±3%

Maximum power	435W	440W	445W	450W	455W	460W	465W
Open circuit voltage	49.6V	49.8V	50.0V	50.2V	50.4V	50.6V	50.8V
Short circuit current	11.10A	11.16A	11.22A	11.28A	11.34A	11.40A	11.46A
Maximum power voltage	41.2V	41.4V	41.6V	41.8V	42.0V	42.2V	42.4V
Maximum power current	10.56A	10.63A	10.70A	10.77A	10.84A	10.91A	10.97A
Module efficiency	19.90%	20.13%	20.36%	20.58%	20.81%	21.04%	21.27%
Operating Temperature	-40°C to +85°C						
Maximum system voltage	1000V DC/1500V DC						
Fire Resistance Rating	Type 1 (in accordance with ULI 703)/Class C(IEC61730)						
Maximum Series Fuse Rating	20A						

### ELECTRICAL PARAMETERS AT NOCT

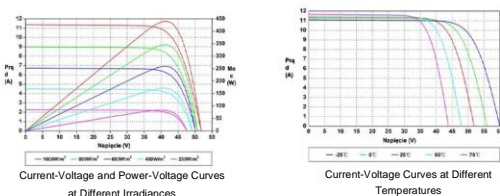
NOCT: Irradiance 800W/m2, Ambient temperature 20°C, Wind Speed 1 m/s

Maximum power	323W	327W	331W	335W	339W	343W	347W
Open circuit voltage	45.6V	45.8V	46.0V	46.2V	46.4V	46.6V	46.8V
Short circuit current	8.99A	9.04A	9.09A	9.14A	9.19A	9.24A	9.29A
Maximum power voltage	37.4V	37.6V	37.8V	38.0V	38.2V	38.4V	38.6V
Maximum power current	8.64A	8.70A	8.76A	8.82A	8.88A	8.94A	8.99A

### WŁAŚCIWOŚCI TEMPERATUROWE

Nominal operating cell temperature (NOCT)	43°C±2°C	Temperature coefficients of Voc	-0.28%/°C
Temperature coefficients of Pmax	-0.36%/°C	Temperature coefficients of Isc	0.05%/°C

### CHARACTERISTICS



### PACKING CONFIGURATION

Standard packaging	31 pcs/pallet
Module quantity per 20' container	155 pieces
Module quantity per 40' container	715 pieces