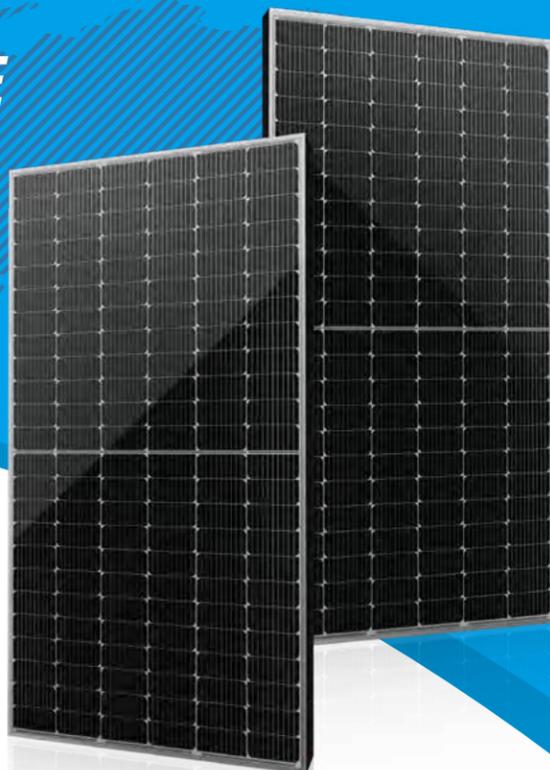


MONO SOLAR MODULE

166*83 Half cell 410-450W



PRODUCT FEATURE

- Bypass diode minimizes the power drop by shade.
- White tempered glass ,EVA resin,weather proof film and anodized aluminum frame to provide efficient protection from the severest environmental conditions.
- Waterproof.Perfect for grid applications.
- Product guarantee 10 years.

Quality Assurance

- Electrical Insulation test
- Outdoor exposure test
- Hot-spot endurance test
- UV-exposure
- Thermal cycling test
- Humidity freeze test
- Damp heat Test
- Robustness of terminations test
- Wet leakage current test
- Mechanical load test
- Hail impact test
- Bypass diode thermal test

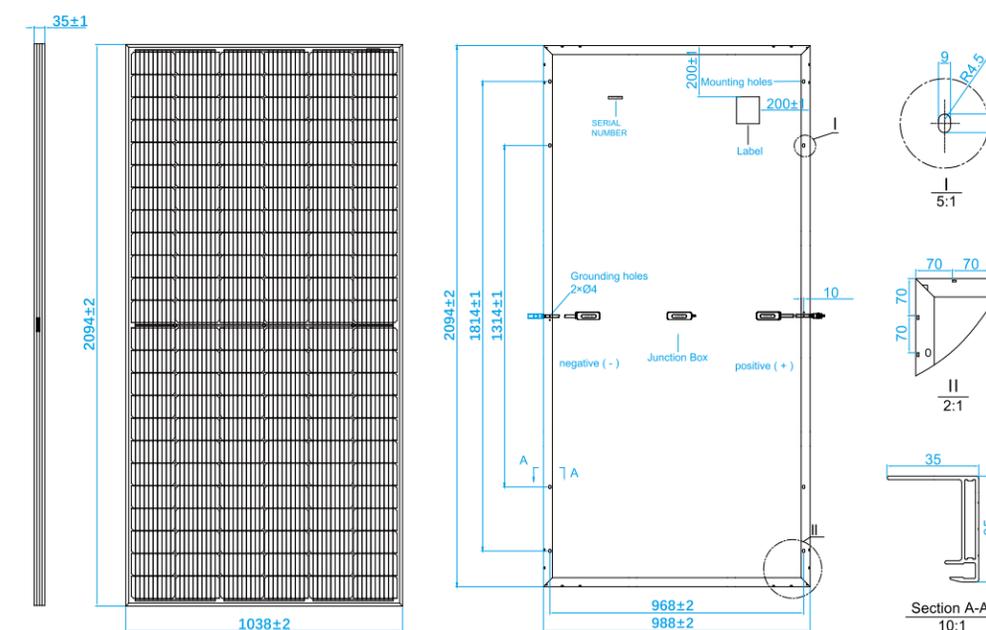
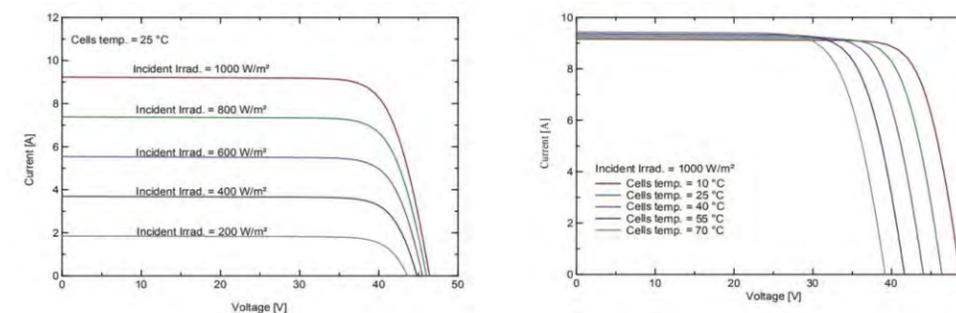
Electric Performance Typical Performance Characteristics

Short Circuit Current Temperature Coefficient	%/°C	0.06
Open Circuit Voltage Temperature Coefficient	%/°C	-0.34
Maximum Power Temperature Coefficient	%/°C	-0.47
Performance Warranty : 90%output , 12 years		
80%output, 25 years		

PRODUCT SPECIFICATION

Type Of Module	NB-410W	NB-420W	NB-440W	NB-450W
Maximum Power (W)	410W	420W	440W	450W
Tolerance (%)	±3%	±3%	±3%	±3%
Open Circuit Voltage (V)	48.80	48.96	49.50	50.28
Short Circuit Current (A)	10.75	10.93	10.33	11.40
Maximum Power Voltage (V)	40.10	40.51	40.95	41.60
Maximum Power Current (A)	10.22	10.37	10.75	10.82
Module Efficiency (%)	18.86	19.30	20.24	20.70
Solar Cell Efficiency (%)	21.3	21.82	22.86	23.38
Series Fuse Rating (A)	20	20	20	20
Terminal Box	IP65			
Maximum system voltage (V)	DC 1500V			
Operating Temperature(°C)	-40°C --85°C			
Dimension	2094 x 1038 x 35 mm			
Weight	23.5kg/pc			
Packing	2pcs in one carton or 30pcs per pallet			

Electrical Characteristics



All dimensions in mm