

SYMN156TBD series

N-TYPE DOUBLE GLASS MONO-FACIAL MODULE

625^W
Maximum Power Output

22.4%
Maximum Module Efficiency

80%
Bifaciality

0~+3%
Power Output Tolerance



Lower LCOE
N-TOPCon bifacial technology: lower degradation,higher bifaciality ,≥ 30 years life and lower BOS cost.



Better Temperature Coefficient
lower temperature coefficient and higher power generation under high -temperature conditions.



PID Resistance
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



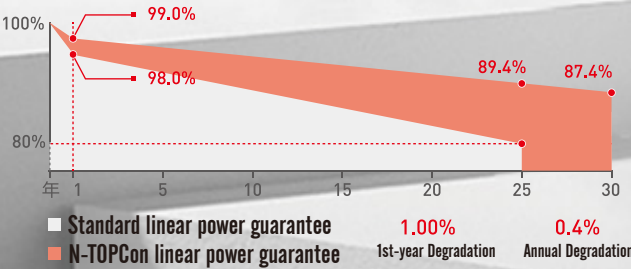
ZERO LID (Light Induced Degradation)
N-type solar cell has no LID naturally which can increase power generation.



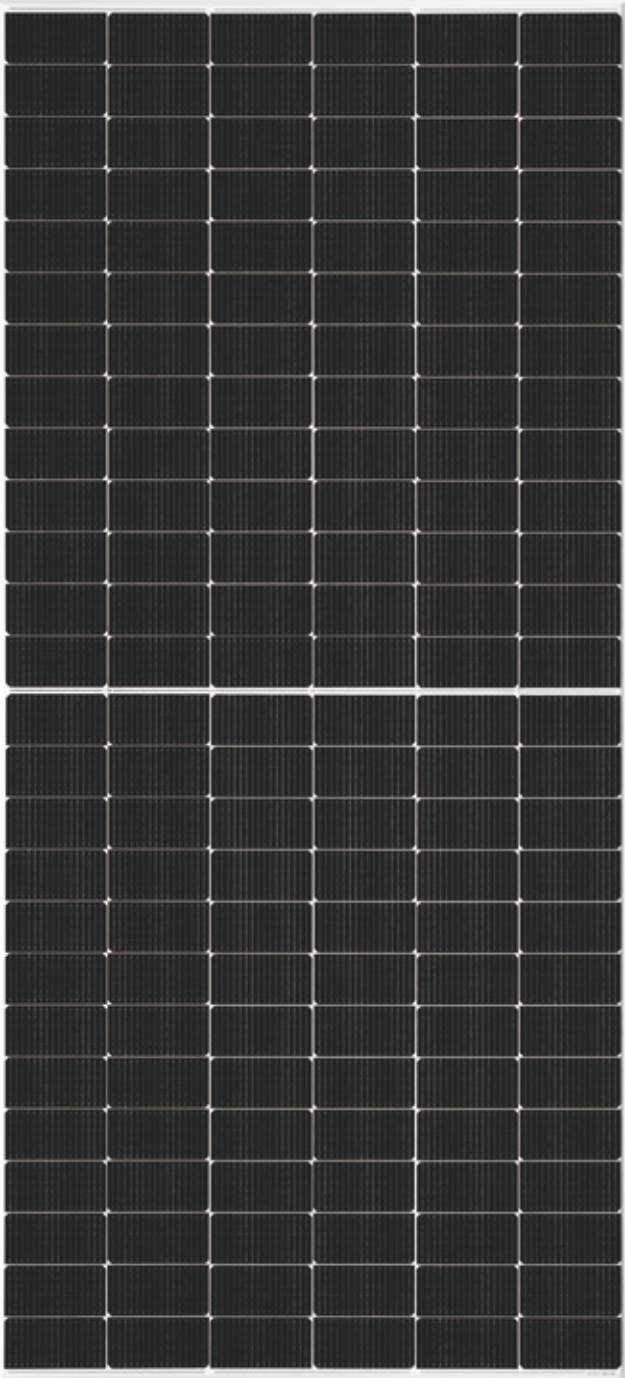
Better Low Light Performance
Higher power output even under low-light environments like on cloudy or foggy days.



Enhanced Mechanical Load
Heavy snow load up to 5400Pa, wind load up to 2400Pa.

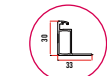
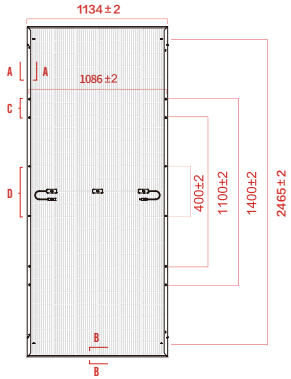


12 Years Product Material & Workmanship 30 Years Linear Performance Warranty



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Engineering Drawing(unit: mm)



A- Long Frame



B- Short Frame

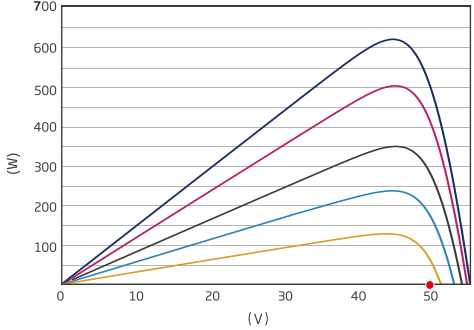
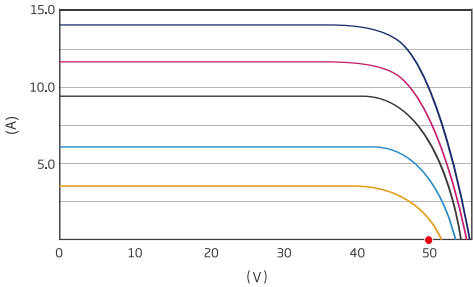


C- Mounting Hole



D- Mounting Hole

Characteristic Curves (SYMN156TBD-615W)



Mechanical Properties

| | | | |
|------------------|---|------------------------|---------------------------------|
| Cell Size | 182.00mm*91.00mm | Front Glass/Back Glass | Heat-strengthened glass 2mm/2mm |
| Number of Cells | 156 (2*78) | Frame | Anodized Aluminium Alloy |
| Module Dimension | 2456mm*1134mm*30mm (97.05in*44.65in*1.18in) | Junction Box | IP68(3 Diodes) |
| Weight | 34.6kg(76.28 lbs) | Connector | MC4 Compatible Connector |
| Length of Cable | TUV 1×4.0mm ² (+): 410mm- (-):290mm (Or Customized Length) | | |

| SPECIFICATIONS | STC* | | | | | NOCT* | | | | |
|--------------------------------|------------|--------|--------|--------|--------|--|-------|-------|-------|-------|
| | Front Side | | | | | Front Side | | | | |
| (Pmax) (W) Peak Power(Pmax)(W) | 605 | 610 | 615 | 620 | 625 | 455 | 459 | 462 | 466 | 470 |
| MPP Voltage(Vmp)(V) | 45.42 | 45.60 | 45.77 | 45.93 | 46.10 | 42.23 | 42.35 | 42.46 | 42.57 | 42.68 |
| MPP Current(Imp)(A) | 13.32 | 13.38 | 13.44 | 13.50 | 13.56 | 10.77 | 10.83 | 10.89 | 10.95 | 11.01 |
| Open Circuit Voltage(Voc)(V) | 55.17 | 55.31 | 55.44 | 55.58 | 55.72 | 52.41 | 52.54 | 52.66 | 52.79 | 52.93 |
| Short Circuit Current(Isc)(A) | 13.95 | 14.03 | 14.11 | 14.19 | 14.27 | 11.26 | 11.33 | 11.39 | 11.46 | 11.52 |
| Module Efficiency(%) | 21.64% | 21.82% | 22.00% | 22.18% | 22.36% | *STC: Irradiance 1000 W/m ² , Cell Temperature 25°C, AM1.5 *NOCT: Irradiance 800 W/m ² , Ambient Temperature 20°C, Wind Speed 1 m/s | | | | |

BIFACIAL OUTPUT-REARSIDE POWER GAIN

| | | | | | | |
|-----|---------------------------|--------|--------|--------|--------|--------|
| 5% | Maximum Power (Pmax) | 635 | 641 | 646 | 651 | 656 |
| | Module Efficiency STC (%) | 22.72% | 22.91% | 23.10% | 23.29% | 23.48% |
| 10% | Maximum Power (Pmax) | 666 | 671 | 677 | 682 | 688 |
| | Module Efficiency STC (%) | 23.80% | 24.00% | 24.20% | 24.40% | 24.60% |
| 20% | Maximum Power (Pmax) | 762 | 769 | 775 | 781 | 788 |
| | Module Efficiency STC (%) | 25.97% | 26.18% | 26.40% | 26.62% | 26.83% |
| 30% | Maximum Power (Pmax) | 826 | 833 | 839 | 846 | 853 |
| | Module Efficiency STC (%) | 29.54% | 29.78% | 30.03% | 30.28% | 30.52% |

| Operating Properties | | Temperature Coefficient | | Packaging Configuration | |
|--------------------------------|-------------|---|-----------|-------------------------|--------------------------|
| Operating Temperature (C) | -40℃~+85℃ | Temperature Coefficient of Pmax | -0.30%/℃ | Packing Type | 40'HQ Container |
| Maximum System Voltage (V) | 1500V (IEC) | Temperature Coefficient of Voc | -0.25%/℃ | Pcs/Pallet | 36 pcs |
| Maximum Series Fuse Rating (A) | 30 A | Temperature Coefficient of Isc | +0.046%/℃ | Pallet/Container | Pal16 trayslet/container |
| Power Tolerance (W) | 0~+5W | Nominal Operating Cell Temperature (NOCT) | 45±2℃ | Pcs/Container | 576 pcs |
| Bifaciality* | 80% | | | | |

*Bifaciality=Pmaxrear (STC) /Pmaxfront (STC) , Bifaciality tolerance:±5%.