

SYMN144R01TBD

N-TYPE DOUBLE GLASS BIFACIAL MODULE



625w

Maximum Power Output

23.14%

Maximum Module Efficiency

80%

Bifaciality

0~5w

Pmax Tolerance



Lower LCOE

N-TOPCon bifacial technology: lower degradation, higher bifaciality, ≥ 30 year service life and lower BOS



Lower 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.



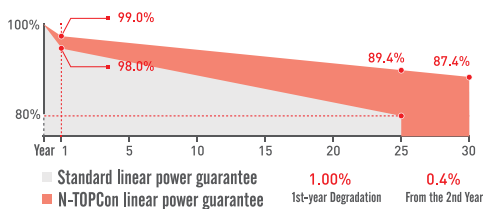
Better Low Light Performance

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



Mechanical Load Enhanced

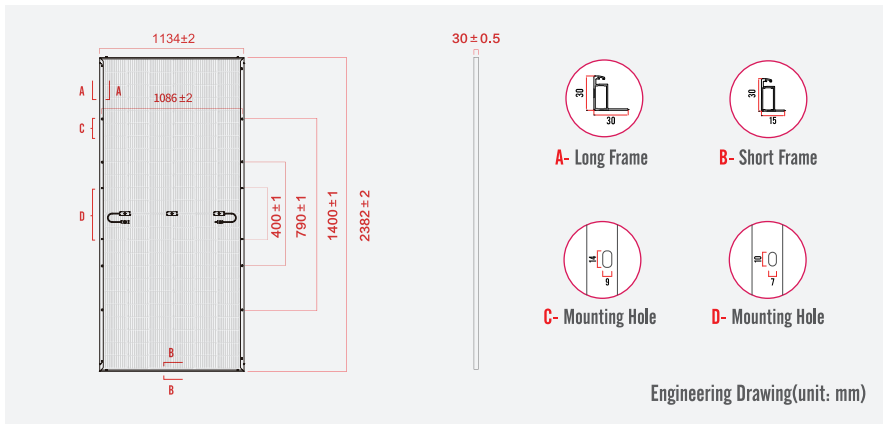
Certified to withstand: 5400 Pa front side max static test load and 2400 Pa rear side max static test load.



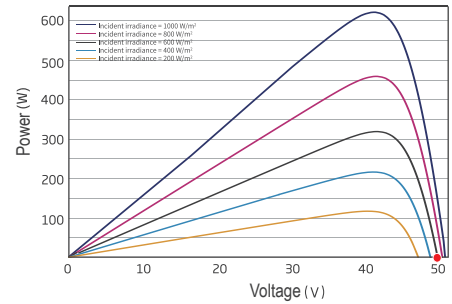
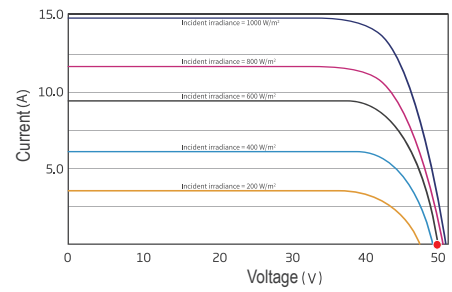
12 Years Product Material & Workmanship
30 Years Linear Performance Warranty

TÜVRheinland®
Precisely Right.





Characteristic Curves (SYMN144R01TBD-625W)



MECHANICAL PROPERTIES

Cell Size	182mm*191mm series	Front Glass/Back Glass	Heat-strengthened Glass 2mm/2mm
Number of Cells	144 (2*72)	Frame	Anodized Aluminium Alloy
Module Dimension	2382mm*1134mm*30mm	Junction Box	IP68
Weight	33.5kg	Connector	MC4 Compatible Connector
Length of Cable	TUV 1×4.0mm² (+): 300mm,(-):200mm(Or Customized Length)		

SPECIFICATIONS	STC*				
	Front Side				
Testing Condition					
Maximum Power (Pmax/W)	605	610	615	620	625
Peak Power Voltage (Vmp/V)	43.43	43.60	43.77	43.94	44.11
Peak Power Current (Imp/A)	13.93	13.99	14.05	14.11	14.17
Open Circuit Voltage (Voc/V)	51.53	51.71	51.91	52.11	52.31
Short Circuit Current (Isc/A)	14.55	14.61	14.67	14.73	14.79
Module Efficiency(%)	22.40%	22.58%	22.77%	22.95%	23.14%

The above data is for reference only, the actual data is subject to the actual test

*STC: Irradiance 1000 W/m², Cell Temperature 25°C, AM1.5

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

Gain (%)	Parameter	605	610	615	620	625
5%	Maximum Power (Pmax)	635	641	646	651	656
	Module Efficiency STC (%)	23.52%	23.71%	23.91%	24.10%	24.29%
15%	Maximum Power (Pmax)	696	702	707	713	719
	Module Efficiency STC (%)	25.76%	25.97%	26.18%	26.40%	26.61%
25%	Maximum Power (Pmax)	756	763	769	775	781
	Module Efficiency STC (%)	28.00%	28.23%	28.46%	28.69%	28.92%

OPERATING PROPERTIES		TEMPERATURE COEFFICIENT		PACKAGING CONFIGURATION	
Operating Temperature (°C)	-40°C~+85°C	Temperature Coefficient of Pmax	-0.29%/°C	Packing Type	40'HQ Container
Maximum System Voltage (V)	DC1500V (IEC)	Temperature Coefficient of Voc	-0.25%/°C	Pcs/Pallet	36 pcs
Maximum Series Fuse Rating (A)	30	Temperature Coefficient of Isc	+0.045%/°C	Pallet/Container	16 pallets
Pmax Tolerance (W)	0~+3W	Nominal Operating Cell Temperature (NOCT)	45±2°C	Pcs/Container	576 pcs
Bifaciality	80±5%				

*Bifaciality=Pmaxrear(STC)/Pmaxfront(STC)

