SYMN144TBD

N-TYPE DOUBLE GLASS BIFACIAL MODULE

600W Maximum Power Output

23.23% 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 higer 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)

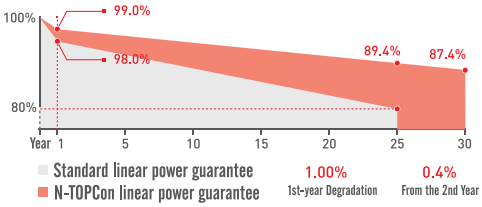
N-type solar cell has no LID naturally which can increase power generation.

Better Low Light Performance

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

Mechanical Loade 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.

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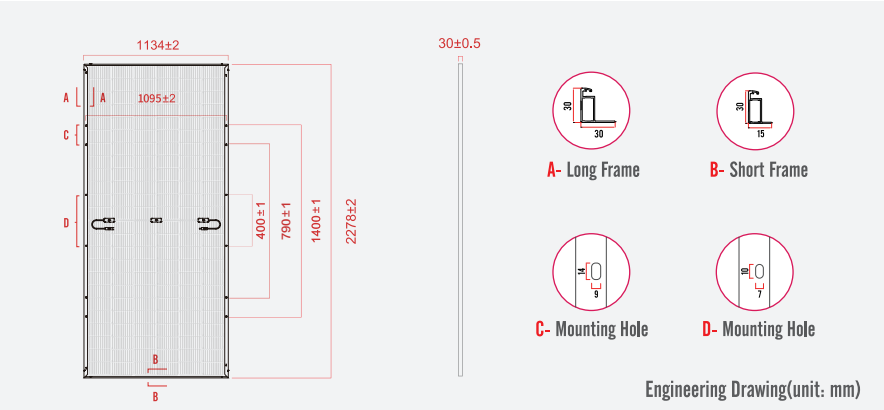
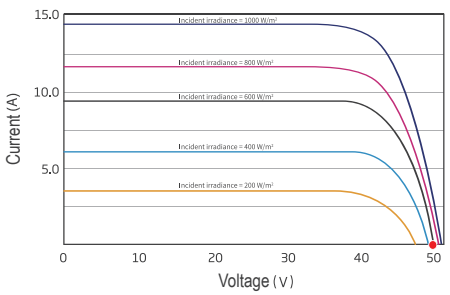
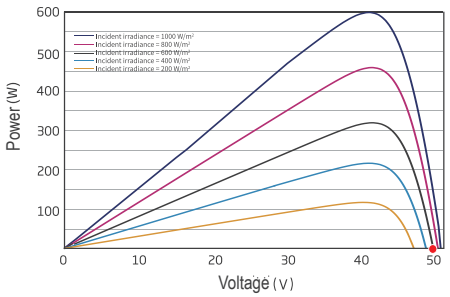


Characteristic Curves (SYMN144TBD-600W)





MECHANICAL PROPERTIES			
Cell Size	182mm*183mm series	Front Glass/Back Glass	Heat-strengthened Glass 2mm/2mm
Number of Cells	144 (2*72)	Frame	Anodized Aluminium Alloy
Module Dimension	2278mm×1134mm×30mm	Junction Box	IP68
Weight	31.2kg	Connector	MC4 Compatible Connector
Length of Cable	TUV 1×4.0mm² (+): 300mm,(-):200mm(Or Customized Length)		

SPECIFICATIONS	STC*					
Testing Condition	Front Side					
Maximum Power (Pmax/W)	575	580	585	590	595	600
Peak Power Voltage (Vmp/V)	44.07	44.24	44.42	44.60	44.77	44.94
Peak Power Current (Imp/A)	13.05	13.11	13.17	13.23	13.29	13.35
Open Circuit Voltage (Voc/V)	51.54	51.68	51.82	51.96	52.10	52.24
Short Circuit Current (Isc/A)	13.84	13.90	13.96	14.02	14.08	14.14
Module Efficiency(%)	22.26%	22.45%	22.65%	22.84%	23.03%	23.23%

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-REARSIDE POWER GAIN							
5%	Maximum Power (Pmax)	604	609	614	620	625	630
	Module Efficiency STC (%)	23.38%	23.57%	23.78%	23.98%	24.18%	24.39%
15%	Maximum Power (Pmax)	661	667	673	679	684	690
	Module Efficiency STC (%)	25.60%	25.82%	26.04%	26.27%	26.49%	26.49%
25%	Maximum Power (Pmax)	719	725	731	738	744	750
	Module Efficiency STC (%)	27.83%	28.07%	28.31%	28.55%	28.79%	29.03%

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	20 pallets
Pmax Tolerance (W)	0~+5W	Nominal Operating Cell Temperature (NOCT)	45±2°C	Pcs/Container	720 pcs
Bifaciality	80±5%				

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

SANY® SANY SILICON ENERGY

Sany Silicon Energy (Zhuzhou) Co., Ltd.
Qingxia Road, Shifeng District, Zhuzhou City,
Hunan Province, China
Sany Silicon Energy (Shuozhou) Co., Ltd.
Pinglu District, Shuozhou City, Shanxi Province, China
Telephone：0731-84031888
www.sanygroup.com

Specifications in this manual are subject to change without notice

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