

SYMN132R04TBD

N-TYPE DOUBLE GLASS BIFACIAL MODULE



635 W

Maximum Power Output

23.51 %

Maximum Module Efficiency

80 %

Bifaciality

0~5 W

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 modules with Tunnel Oxide Passivating Contacts (TOPCon) technology offer zero LID degradation.



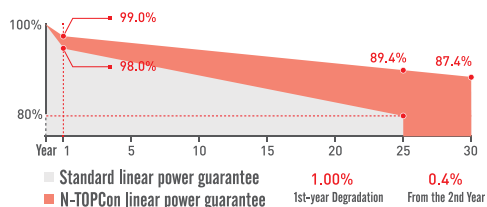
Better Low Light Performance

Higher power output even under low-light weather such as cloudy and foggy days.



Mechanical Load Enhanced

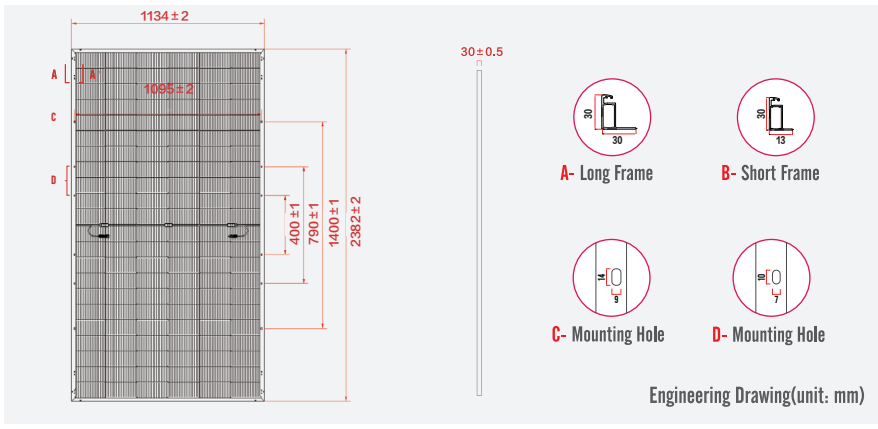
Certified to withstand: 5400 Pa front side max static test load and 2400 Pa rear side max static test load.



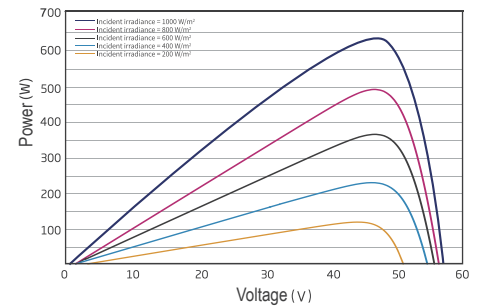
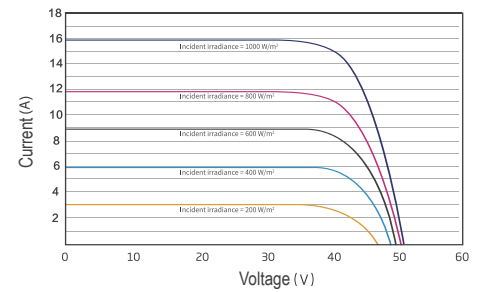
12 Years Material & Workmanship Warranty
30 Years Linear Performance Warranty

TÜVRheinland®
Precisely Right.





Characteristic Curves (SYM132R04TBD-635W)



Mechanical Properties

Cell Size	182mm*210mm	Front Glass/Back Glass	Heat-strengthened glass 2mm/2mm
Number of Cells	132 (2*66)	Frame	Anodized Aluminium Alloy
Module Dimension	2382mm × 1134mm × 30mm	Junction Box	IP68
Weight	33kg	Connector	MC4 Compatible Connector
Length of Cable	TUV 1×4.0mm² (+): 300mm (-): 200mm (Or Customized Length)		

SPECIFICATIONS (FRONT)

STC*

	605	610	615	620	625	630	635
Maximum Power (P _{max} /W)	605	610	615	620	625	630	635
Peak Power Voltage (V _{mp} /V)	39.57	39.79	39.96	40.23	40.45	40.67	40.89
Peak Power Current (I _{mp} /A)	15.29	15.33	15.39	15.41	15.45	15.49	15.53
Open Circuit Voltage (V _{oc} /V)	47.89	48.09	48.29	48.50	48.70	48.90	49.10
Short Circuit Current (I _{sc} /A)	16.08	16.14	16.20	16.26	16.32	16.38	16.44
Module Efficiency (%)	22.40	22.58	22.77	22.95	23.14	23.32	23.51

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

		635	641	646	651	656	662	667
5%	Maximum Power (P _{max})	635	641	646	651	656	662	667
	Module Efficiency STC (%)	23.52	23.71	23.91	24.10	24.29	24.49	24.68
15%	Maximum Power (P _{max})	696	702	707	713	719	725	730
	Module Efficiency STC (%)	25.76	25.97	26.18	26.40	26.61	26.82	27.03
25%	Maximum Power (P _{max})	756	763	769	775	781	788	794
	Module Efficiency STC (%)	28.00	28.23	28.46	28.69	28.92	29.15	29.39

Operating Properties

Temperature Coefficient

Packaging Configuration

Operating Temperature	-40°C~+85°C	Temperature Coefficient of P _{max}	-0.29%/°C	Packing Type	40'HQ Container	17.5m Flatbed Trailer
Maximum System Voltage	DC1500V (IEC)	Temperature Coefficient of V _{oc}	-0.25%/°C	Pcs/Pallet	36 pcs	36 pcs
Maximum Series Fuse Rating	35A	Temperature Coefficient of I _{sc}	+0.045%/°C	Pallet/Container	20 pallets	24 pallets
P _{max} Tolerance	0~+5W	Nominal Operating Cell Temperature (NOCT)	45 ± 2°C	Pcs/Container	720 pcs	864 pcs
Bifaciality	80 ± 5%					

*Bifaciality = P_{max}rear (STC) / P_{max}front (STC)

