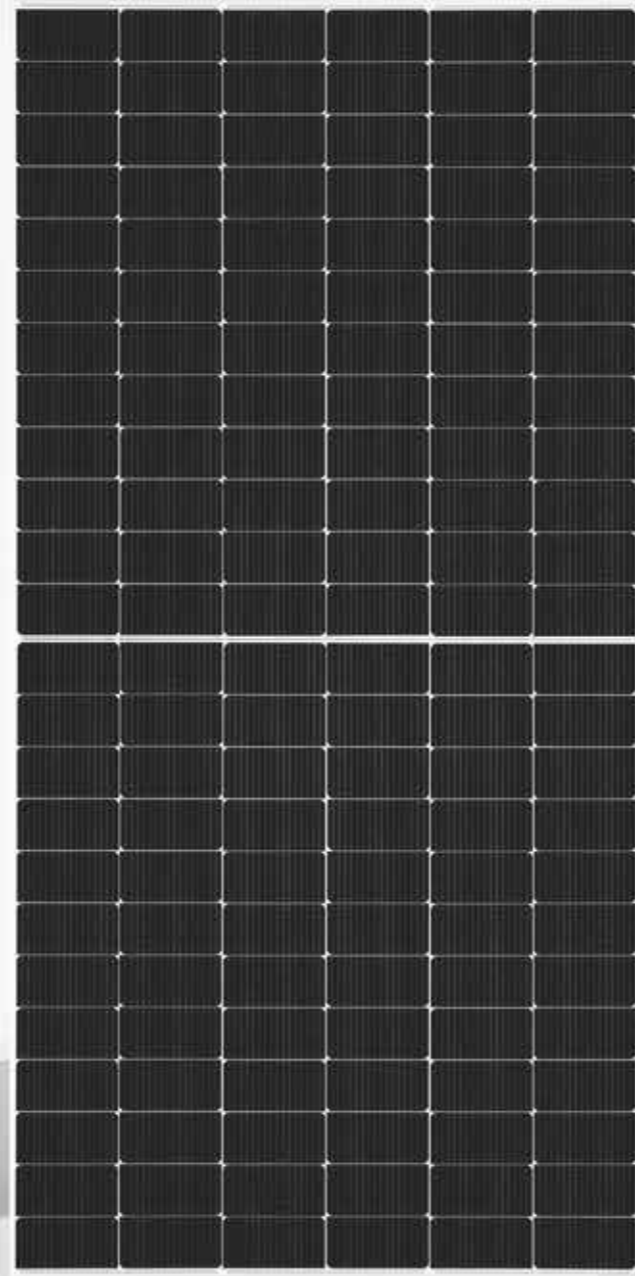


SYMN144TS

N-TYPE SINGLE GLASS MONO-FACIAL MODULE

585_w Maximum Power Output **22.6%** Maximum Module Efficiency **0~+3%** Power Tolerance



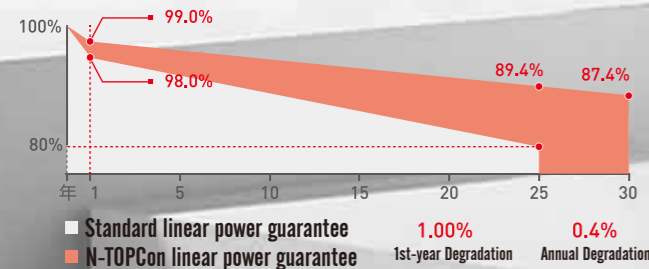
Lower LCOE
N-TOPCon technology: lower degradation, ≥ 30 years life and lower BOS cost.

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

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.



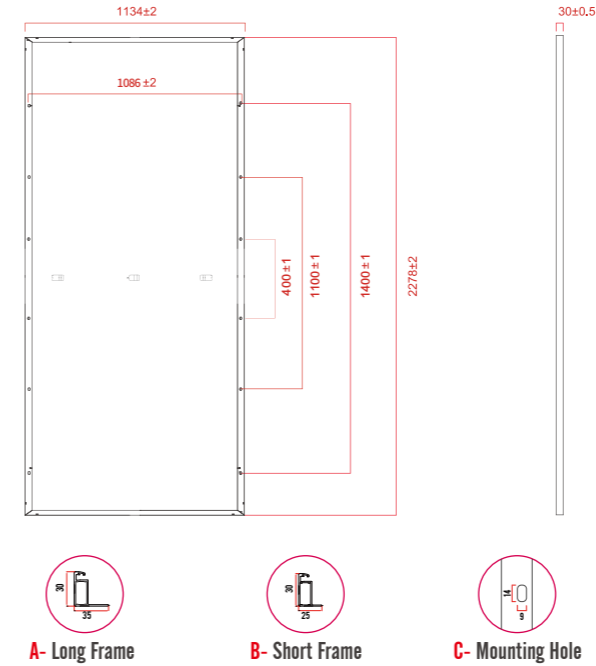
12 Years Product Material & Workmanship 30 Years Linear Performance Warranty



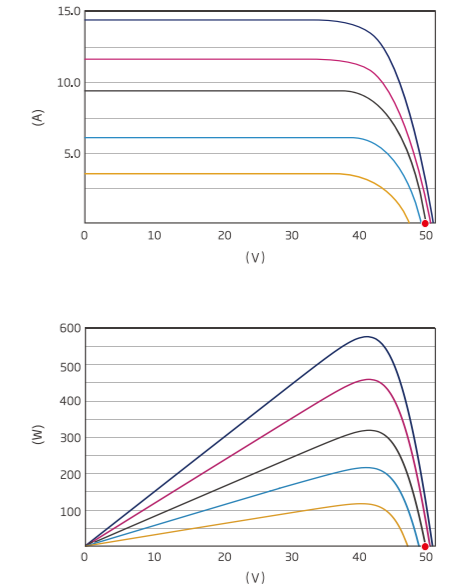
The TUV certificate holder is Sany Silicon Energy (Zhuzhou) Co., Ltd. Made in China

SYMN144TS

Engineering Drawing(unit: mm)



Characteristic Curves (SYMN144TS-585W)



SPECIFICATIONS	STC*					NOCT*				
	Front Side					Front Side				
Testing Condition										
(Pmax) (W) Peak Power(Pmax)(W)	565	570	575	580	585	414	429	432	436	440
MPP Voltage(Vmp)(V)	43.10	43.27	43.44	43.61	43.78	39.95	40.06	40.17	40.29	40.44
MPP Current(Impp)(A)	13.11	13.18	13.24	13.30	13.36	10.64	10.70	10.76	10.82	10.87
Open Circuit Voltage(Voc)(V)	51.26	51.40	51.54	51.68	51.82	48.71	48.83	48.95	49.09	49.22
Short Circuit Current(Isc)(A)	13.72	13.78	13.84	13.90	13.96	11.07	11.12	11.17	11.22	11.27
Module Efficiency(%)	21.90%	22.08%	22.26%	22.45%	22.64%	*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				

Operating Properties	Temperature Coefficient	Packaging Configuration
Operating Temperature (°C)	-40°C~+85°C	Temperature Coefficient of Pmax
Maximum System Voltage (V)	1500V (IEC)	Temperature Coefficient of Voc
Maximum Series Fuse Rating (A)	25A	Temperature Coefficient of Isc
Power Sorting	0~+4.99W	Nominal Operating Cell Temperature (NOCT)
		45±2°C
		Packing Type
		40'HQ Container
		Pcs/Pallet
		36 pcs
		Pallet/Container
		Pal20 trayslet/container
		Pcs/Container
		720 pcs

Mechanical Properties					
Cell Size	182.00mm*91.00mm	Weight	27.6kg(60.85 lbs)	Junction Box	IP68 Rated, 1500VDC, 3 bypass diodes
Number of Cells	144 (2*72)	Front Glass	32mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass	Length of Cable	TUV 1×4.0mm ² (+): 410mm (-): 290mm or customized Length
Module Dimension	2278mm*1134mm*30mm (89.69x44.65x1.18inch)	Frame	Anodized Aluminium Alloy	Mounting holes	1400 mm, 1100 mm, 400 mm
Fire rating (According to UL 790)	Class C		Connector	QC4.10-cds from QC Solar PV-XT101.2 from Suzhou XTong	