

SYMN144TS series

N-TYPE SINGLE GLASS MONO-FACIAL MODULE

585_W Maximum Power Output

22.6% Maximum Module Efficiency

0~+3% Power Output Tolerance

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

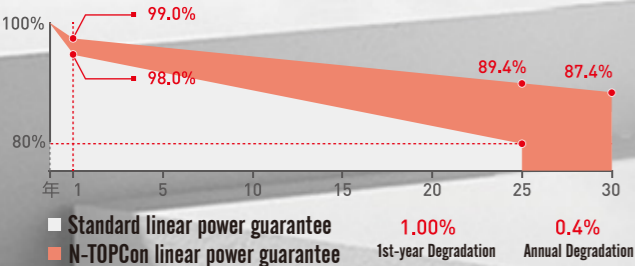
Better Temperature Coefficient
lower temperature coefficient and higher power generation under high -temperature conditions.

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.

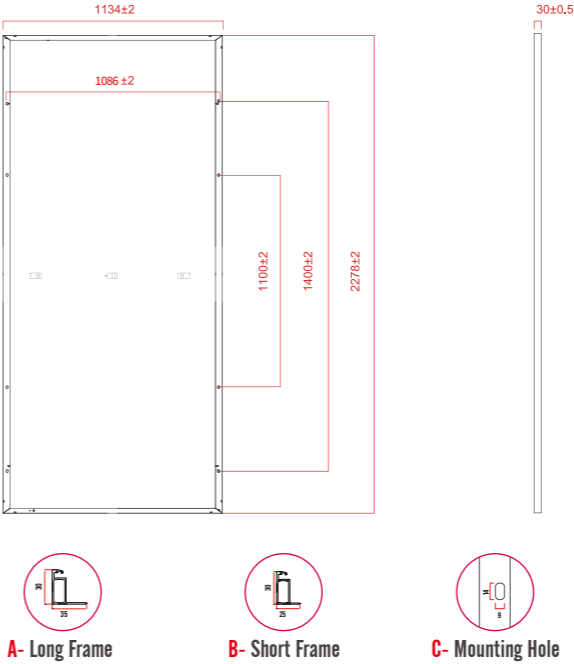


12 Years Product Material & Workmanship 30 Years Linear Performance Warranty

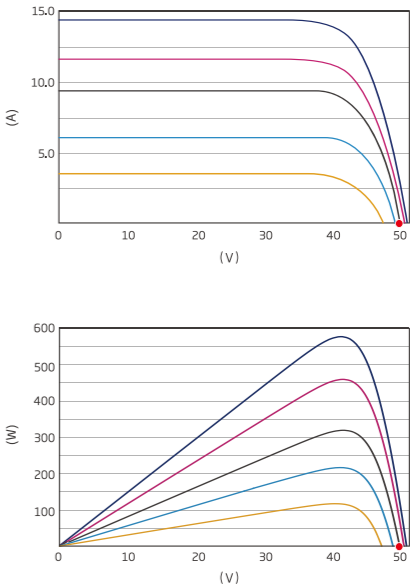


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Engineering Drawing(unit: mm)



Characteristic Curves (SYMN144TS-575W)



SPECIFICATIONS	STC*						NOCT*					
	Front Side						Front Side					
Testing Condition												
(Pmax) (W) Peak Power(Pmax)(W)	560	565	570	575	580	585	421	425	429	432	436	440
MPP Voltage(Vmp)(V)	41.77	41.92	42.07	42.22	42.37	42.52	39.24	39.38	39.51	39.6	39.69	39.81
MPP Current(Impp)(A)	13.41	13.48	13.55	13.62	13.69	13.76	10.73	10.79	10.85	10.92	10.99	11.05
Open Circuit Voltage(Voc)(V)	50.46	50.60	50.74	50.88	51.02	51.16	47.93	48.06	48.2	48.33	48.46	48.6
Short Circuit Current(Isc)(A)	14.15	14.23	14.31	14.39	14.47	14.56	11.43	11.49	11.55	11.62	11.68	11.75
Module Efficiency(%)	21.7%	21.9%	22.1%	22.3%	22.5%	22.6%	*STC: Irradiance 1000 W/m², Cell Temperature 25°C, AM1.5 *NOCT: Irradiance 800 W/m², 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	-0.30%/°C	Packing Type	40'HQ Container
Maximum System Voltage (V)	1500V (IEC)	Temperature Coefficient of Voc	-0.25%/°C	Pcs/Pallet	36 pcs
Maximum Series Fuse Rating (A)	25A	Temperature Coefficient of Isc	0.046%/°C	Pallet/Container	Pal20 trayslet/container
Power Tolerance (W)	0~+5W	Nominal Operating Cell Temperature (NOCT)	45±2°C	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 Hight Transmission,Low Iron,Tempered Glass	Length of Cable	TUV 1×4.0mm² (+): 410mm· (-):290mm or customized Length
Module Dimension	2278mm*1134mm*30mm (89.69x44.65x1.18inch)	Frame	Anodized Aluminium Alloy	Mounting holes	1400 mm,1100 mm